

# On Sequences in Cyclic Groups with Distinct Partial Sums - Additional Material

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$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_2 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(10, 0)	(0, 0, 0, 0, 0, 0, 0, 0, 0, 0)	89	$x_1^8 x_2^9 x_3^9 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9$	$2^5 \cdot 7 \cdot 11^2 \cdot 21966239$
			$x_1^9 x_2^8 x_3^9 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9$	$2 \cdot 13 \cdot 211 \cdot 256046627$
(9, 1)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0)	52	$x_2^2 x_3^4 x_4^7 x_5^8 x_7^8 x_8^8 x_9^8 x_{10}^8$	$-1 \cdot 2^2$
(8, 2)	(0, 1, 0, 0, 0, 0, 1, 0, 0, 0)	45	$x_1 x_3 x_4^7 x_5^7 x_6^7 x_7 x_8^7 x_9^7 x_{10}^7$	$-1 \cdot 2 \cdot 3 \cdot 7$
(7, 3)	(0, 0, 0, 0, 1, 0, 0, 0, 1, 1)	42	$x_2^6 x_3^6 x_4^2 x_5^6 x_6^6 x_7^6 x_8^2 x_9^2 x_{10}^2$	$-1 \cdot 2 \cdot 3 \cdot 7$
(6, 4)	(0, 0, 0, 1, 0, 0, 0, 1, 1, 1)	39	$x_1^5 x_2^5 x_3^5 x_4^3 x_5^5 x_6^5 x_7^3 x_8^3 x_9^3 x_{10}^2$	$2 \cdot 5$
(5, 5)	(0, 0, 0, 1, 0, 0, 1, 1, 1, 1)	40	$x_1^4 x_2^4 x_3^4 x_4^4 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4$	$2^2 \cdot 157$
			(0, 1, 0, 1, 0, 1, 0, 1, 0, 1)	40
(4, 6)	(0, 1, 0, 1, 1, 1, 1, 0, 1, 0)	41	$x_2^2 x_3^5 x_4^3 x_5^5 x_6^5 x_7^5 x_8^3 x_9^5 x_{10}^3$	$2^4 \cdot 3 \cdot 5 \cdot 13$
			$x_1^3 x_2^4 x_3^3 x_4^2 x_5^5 x_6^5 x_7^3 x_8^5 x_9^3 x_{10}^3$	$2 \cdot 3 \cdot 463$
(3, 7)	(0, 0, 1, 0, 1, 1, 1, 1, 1, 1)	46	$x_2^2 x_3^6 x_4^2 x_5^6 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6$	$-1 \cdot 2^3 \cdot 3^2$
(2, 8)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 1)	51	$x_1 x_2 x_3 x_4^6 x_5^7 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7$	$-1 \cdot 2 \cdot 1277$
			$x_1 x_3 x_4^7 x_5^6 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7$	$-1 \cdot 2 \cdot 17^2$
(1, 9)	(1, 0, 1, 1, 1, 1, 1, 1, 1, 1)	60	$x_2^2 x_3^2 x_4^8 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8$	$2 \cdot 17^2$
			$x_1^2 x_2^3 x_3^7 x_4^8 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8$	$2^2 \cdot 647$
(0, 10)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	69	$x_1^2 x_2^2 x_3^4 x_4^7 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9$	$2 \cdot 3 \cdot 733$
			$x_1^2 x_2^2 x_3^4 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9$	$2^5 \cdot 3^2 \cdot 5$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_3 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(10, 0, 0)	(0, 0, 0, 0, 0, 0, 0, 0, 0, 0)	89	$x_1^8 x_2^9 x_3^9 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9$	$2^5 \cdot 7 \cdot 11^2 \cdot 21966239$
			$x_1^9 x_2^8 x_3^9 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9$	$2 \cdot 13 \cdot 211 \cdot 256046627$
(9, 1, 0)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0)	52	$x_2^2 x_3^4 x_4^7 x_5^8 x_7^8 x_8^8 x_9^8 x_{10}^8$	$-1 \cdot 2^2$
(8, 2, 0)	(0, 0, 0, 1, 0, 0, 0, 1, 0, 0)	36	$x_2^2 x_3^4 x_5^3 x_6^6 x_7^7 x_8^6 x_9^7 x_{10}^7$	$-1 \cdot 2$
(8, 1, 1)	(0, 0, 0, 0, 1, 0, 0, 0, 0, 2)	44	$x_1 x_2^3 x_3^6 x_4^7 x_5^6 x_6^7 x_7^7 x_8^7 x_9^7$	$-1 \cdot 2^2$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_3 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(7, 3, 0)	(0, 0, 1, 0, 0, 0, 1, 0, 0, 1)	31	$x_1x_2^3x_4^2x_5^5x_6^6x_7x_8^5x_9^6x_{10}^2$	$-1 \cdot 2$
(7, 2, 1)	(0, 0, 0, 1, 0, 0, 1, 0, 0, 2)	30	$x_2^2x_3^4x_4x_5^5x_6^6x_7x_8^5x_9^6$	2
(6, 4, 0)	(0, 0, 1, 0, 0, 1, 0, 0, 1, 1)	30	$x_2^2x_3^2x_4^4x_5^5x_6^2x_7^4x_8^5x_9^3x_{10}^3$	2
(6, 3, 1)	(0, 0, 0, 1, 0, 0, 1, 0, 2, 1)	27	$x_2^2x_3^5x_4x_5^5x_6^5x_7^2x_8^5x_{10}^2$	-1
(6, 2, 2)	(0, 0, 1, 0, 0, 1, 0, 0, 2, 2)	25	$x_1x_2^3x_4^4x_5^5x_6^4x_7^4x_8^5x_9x_{10}$	$-1 \cdot 2$
(5, 5, 0)	(0, 0, 1, 0, 0, 1, 0, 1, 1, 1)	30	$x_2^2x_3x_4^3x_5^4x_6^4x_7^4x_8^4x_9^4x_{10}^4$	$-1 \cdot 3^2$
(5, 4, 1)	(0, 0, 1, 0, 0, 1, 0, 2, 1, 1)	25	$x_1x_2^3x_3x_4^3x_5^4x_6^3x_7^4x_9^3x_{10}^3$	1
(5, 3, 2)	(0, 0, 0, 1, 0, 1, 0, 2, 1, 2)	24	$x_1^4x_2^4x_3^3x_4^2x_5^4x_6^2x_7^2x_8x_9^2$	2
(4, 6, 0)	(0, 1, 0, 0, 1, 0, 1, 1, 1, 1)	31	$x_1^3x_2^5x_3^3x_4^5x_5^3x_6^4x_7^4x_8x_9$	-1
(4, 5, 1)	(0, 0, 1, 0, 1, 0, 1, 1, 1, 2)	27	$x_2^2x_3^3x_4^3x_5^4x_6^3x_7^4x_8^4x_9^4$	$2^2 \cdot 3$
(4, 4, 2)	(0, 0, 0, 1, 0, 1, 2, 1, 2, 1)	24	$x_1^2x_2^2x_3^3x_4^3x_5^3x_6^3x_7x_8^3x_9x_{10}^3$	-2
(4, 3, 3)	(0, 0, 1, 0, 1, 0, 2, 1, 2, 2)	22	$x_1x_2^3x_3^2x_4^2x_5^3x_6^3x_7^2x_8^2x_9^2x_{10}^2$	$2^2 \cdot 3$
(3, 7, 0)	(0, 1, 0, 1, 0, 1, 1, 1, 1, 1)	36	$x_2x_3^2x_4x_5^6x_6^6x_7^6x_8^6x_9^6x_{10}^6$	-1
(3, 6, 1)	(0, 0, 1, 0, 1, 1, 1, 1, 2, 1)	30	$x_1^2x_2x_3^5x_4^2x_5^5x_6^5x_7^5x_8^4x_{10}$	1
(3, 5, 2)	(0, 0, 1, 0, 1, 2, 1, 2, 1, 1)	25	$x_1^2x_2^2x_3x_4^2x_5^4x_6^4x_7^4x_8^4x_9^4x_{10}$	2
(3, 4, 3)	(0, 0, 1, 0, 1, 1, 2, 2, 1, 2)	24	$x_1^2x_2^2x_3^3x_4^2x_5^3x_6^3x_7^2x_8^3x_9^3x_{10}^2$	$-1 \cdot 2^2$
(2, 8, 0)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 1)	42	$x_3x_4^2x_5^4x_6^7x_7^7x_8^7x_9^7x_{10}^7$	-1
(2, 7, 1)	(0, 1, 0, 1, 1, 1, 1, 2, 1, 1)	34	$x_1x_3x_4^2x_5^6x_6^6x_7^6x_9^6x_{10}^6$	-1
(2, 6, 2)	(2, 0, 1, 1, 1, 1, 1, 2, 1, 0)	30	$x_3^3x_4^5x_5^5x_6^5x_7^5x_8x_9^5x_{10}$	2
(2, 5, 3)	(2, 1, 1, 1, 0, 2, 2, 1, 0, 1)	27	$x_1^2x_2^4x_3^4x_4^2x_6^2x_7^4x_8^4x_9x_{10}^4$	$-1 \cdot 3^3$
(2, 4, 4)	(0, 1, 0, 1, 1, 2, 2, 1, 2, 2)	25	$x_1x_2^2x_3x_4^3x_5^3x_6^3x_7^3x_8^3x_9^3x_{10}^3$	3
(1, 9, 0)	(1, 0, 1, 1, 1, 1, 1, 1, 1, 1)	49	$x_3x_4^4x_5^5x_6^7x_7^8x_8^8x_9^8x_{10}^8$	$2 \cdot 3$
(1, 8, 1)	(0, 1, 1, 1, 1, 1, 1, 1, 1, 2)	42	$x_2x_3^2x_4^4x_5^7x_6^7x_7^7x_8^7x_9^7$	1
(1, 7, 2)	(0, 1, 1, 1, 1, 1, 1, 2, 2, 1)	36	$x_3^4x_4^6x_5^6x_6^6x_7^6x_8x_9x_{10}^6$	$2^2 \cdot 3$
(1, 6, 3)	(1, 1, 0, 1, 1, 1, 2, 1, 2, 2)	31	$x_2^5x_4^5x_5^5x_6^5x_7^2x_8^5x_9^2x_{10}^2$	$-1 \cdot 2^2$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_3 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(1, 5, 4)	(0, 1, 1, 1, 1, 1, 2, 2, 2, 2)	30	$x_2^4 x_3^4 x_4^4 x_5^4 x_6^3 x_7^3 x_8^3 x_9 x_{10}$	-1
(0, 10, 0)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	60	$x_1^2 x_2^2 x_3^4 x_4^7 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}$	$-1 \cdot 3$
(0, 9, 1)	(1, 1, 1, 1, 1, 2, 1, 1, 1, 1)	51	$x_2^2 x_3^3 x_4^6 x_5^8 x_7^8 x_8^8 x_9^8 x_{10}$	$2 \cdot 5$
(0, 8, 2)	(1, 1, 1, 1, 1, 1, 1, 1, 2, 2)	43	$x_2^2 x_3^4 x_4^7 x_5^7 x_6^7 x_7^7 x_8^7 x_9 x_{10}$	-1
(0, 7, 3)	(2, 1, 1, 1, 1, 1, 1, 1, 2, 2)	39	$x_1 x_2^2 x_3^2 x_4^6 x_5^6 x_6^6 x_7^6 x_8^6 x_9^2 x_{10}^2$	1
(0, 6, 4)	(2, 1, 2, 1, 1, 1, 1, 1, 2, 2)	38	$x_1 x_2^3 x_3^3 x_4^5 x_5^5 x_6^5 x_7^5 x_8^3 x_9^3 x_{10}$	$-1 \cdot 2^2$
(0, 5, 5)	(1, 1, 1, 1, 1, 2, 2, 2, 2, 2)	34	$x_2^2 x_3^4 x_4^4 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}$	-1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(10, 0, 0, 0)	(0, 0, 0, 0, 0, 0, 0, 0, 0, 0)	89	$x_1^8 x_2^9 x_3^9 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9$ $x_1^9 x_2^8 x_3^9 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9$	$2^5 \cdot 7 \cdot 11^2 \cdot 21966239$ $2 \cdot 13 \cdot 211 \cdot 256046627$
(9, 1, 0, 0)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0)	52	$x_2^2 x_3^4 x_4^7 x_5^8 x_7^8 x_8^8 x_9^8 x_{10}$	$-1 \cdot 2^2$
(9, 0, 1, 0)	(0, 0, 0, 0, 0, 2, 0, 0, 0, 0)	52	$x_2^2 x_3^4 x_4^7 x_5^8 x_7^8 x_8^8 x_9^8 x_{10}$	$-1 \cdot 2^2$
(8, 2, 0, 0)	(0, 0, 0, 1, 0, 0, 0, 1, 0, 0)	36	$x_2^2 x_3^4 x_5^6 x_6^7 x_7^8 x_8^6 x_9^7 x_{10}$	$-1 \cdot 2$
(8, 1, 0, 1)	(0, 0, 0, 0, 1, 0, 0, 0, 0, 3)	44	$x_1 x_2^3 x_3^6 x_4^7 x_6^6 x_7^7 x_8^7 x_9^7$	$-1 \cdot 2^2$
(8, 1, 1, 0)	(0, 0, 0, 1, 0, 0, 0, 2, 0, 0)	35	$x_2^2 x_3^4 x_5^6 x_6^7 x_7^6 x_9^7 x_{10}$	$-1 \cdot 2$
(8, 0, 2, 0)	(0, 0, 0, 0, 2, 0, 0, 0, 0, 2)	45	$x_1 x_2^3 x_3^6 x_4^7 x_6^6 x_7^7 x_8^7 x_9^7 x_{10}$	$-1 \cdot 2^2$
(7, 3, 0, 0)	(0, 0, 1, 0, 0, 1, 0, 0, 1, 0)	27	$x_2^2 x_4^2 x_5^4 x_6^4 x_7^6 x_8^6 x_9^6 x_{10}$	1
(7, 2, 0, 1)	(0, 0, 0, 1, 0, 0, 1, 0, 0, 3)	30	$x_2^2 x_3^4 x_4^5 x_5^6 x_6^7 x_7^5 x_8^6 x_9^6$	2
(7, 2, 1, 0)	(0, 0, 1, 0, 0, 0, 1, 0, 0, 2)	29	$x_1 x_2^3 x_4^2 x_5^5 x_6^6 x_7^5 x_8^6 x_9^6$	$-1 \cdot 2$
(7, 1, 1, 1)	(0, 0, 1, 0, 0, 2, 0, 0, 3, 0)	24	$x_2^2 x_4^2 x_5^4 x_7^4 x_8^6 x_{10}^6$	1
(7, 1, 2, 0)	(0, 0, 2, 0, 0, 1, 0, 0, 2, 0)	25	$x_2^2 x_4^2 x_5^4 x_7^4 x_8^6 x_9 x_{10}^6$	1
(7, 0, 3, 0)	(0, 0, 0, 0, 2, 0, 0, 0, 2, 2)	42	$x_2^6 x_3^6 x_4^6 x_5^2 x_6^6 x_7^6 x_8^6 x_9^2 x_{10}^2$	$-1 \cdot 2 \cdot 3 \cdot 7$
(6, 4, 0, 0)	(0, 1, 0, 0, 1, 0, 0, 1, 0, 1)	24	$x_1 x_3 x_4^3 x_5^3 x_6^5 x_7^5 x_8^5 x_9^3 x_{10}^3$	-1
(6, 3, 0, 1)	(0, 0, 1, 0, 0, 1, 0, 1, 0, 3)	22	$x_2^2 x_4^2 x_5^4 x_6^5 x_7^5 x_8^2 x_9^5$	1
(6, 2, 0, 2)	(0, 0, 1, 0, 0, 1, 0, 0, 3, 3)	25	$x_1 x_2^3 x_4^4 x_5^5 x_6^4 x_7^5 x_8^5 x_9 x_{10}$	$-1 \cdot 2$
(6, 3, 1, 0)	(0, 0, 1, 0, 1, 0, 0, 1, 0, 2)	22	$x_2^2 x_3 x_4^3 x_5^3 x_6^5 x_7^5 x_8^2 x_9^5$	1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(6, 2, 1, 1)	(0, 0, 1, 0, 0, 2, 0, 3, 0, 1)	20	$x_2^2 x_4^2 x_5^5 x_7^5 x_9^5 x_{10}$	1
(6, 2, 2, 0)	(0, 0, 1, 0, 2, 0, 0, 2, 1, 0)	21	$x_2^2 x_4^3 x_6^4 x_7^5 x_8 x_9 x_{10}^5$	-1
(6, 1, 2, 1)	(0, 1, 0, 0, 2, 0, 0, 3, 0, 2)	19	$x_1 x_3 x_4^3 x_6^3 x_7^5 x_9^5 x_{10}$	-1
(6, 1, 3, 0)	(0, 0, 2, 0, 0, 1, 0, 2, 0, 2)	22	$x_2^2 x_4^2 x_5^5 x_7^5 x_8 x_9^5 x_{10}^2$	1
(6, 0, 4, 0)	(0, 0, 0, 2, 0, 0, 0, 2, 2, 2)	39	$x_1^2 x_2^5 x_3^5 x_4^3 x_5^5 x_6^5 x_7^5 x_8^3 x_9^3 x_{10}^3$ $x_1^3 x_2^4 x_3^5 x_4^3 x_5^5 x_6^5 x_7^5 x_8^3 x_9^3 x_{10}^3$	$2^4 \cdot 3 \cdot 11$ $2^4 \cdot 3 \cdot 13$
(5, 5, 0, 0)	(0, 1, 0, 1, 0, 0, 1, 0, 1, 1)	25	$x_2 x_3^2 x_4 x_5^2 x_6^4 x_7^3 x_8^4 x_9^4 x_{10}^4$	1
(5, 4, 0, 1)	(0, 0, 1, 0, 0, 1, 0, 1, 3, 1)	21	$x_2^2 x_4^2 x_5^4 x_6^3 x_7^4 x_8^3 x_{10}^3$	1
(5, 3, 0, 2)	(0, 0, 1, 0, 1, 0, 1, 0, 3, 3)	19	$x_2^2 x_3 x_4^3 x_5 x_6^4 x_7^2 x_8^4 x_9 x_{10}$	-1
(5, 4, 1, 0)	(0, 0, 1, 0, 1, 0, 1, 0, 2, 1)	21	$x_2^2 x_4^2 x_5^3 x_6^4 x_7^3 x_8^4 x_{10}^3$	1
(5, 3, 1, 1)	(0, 1, 0, 0, 1, 0, 1, 0, 3, 2)	17	$x_1 x_3 x_4^3 x_5^2 x_6^4 x_7^2 x_8^4$	-1
(5, 2, 1, 2)	(0, 0, 1, 0, 0, 2, 3, 0, 1, 3)	17	$x_2^2 x_3 x_4^3 x_5^4 x_7 x_8^4 x_9 x_{10}$	$-1 \cdot 2$
(5, 3, 2, 0)	(0, 0, 1, 0, 2, 0, 2, 1, 0, 1)	19	$x_2^2 x_4^4 x_5 x_6^4 x_7 x_8 x_9^4 x_{10}^2$	-1
(5, 2, 2, 1)	(0, 0, 1, 0, 2, 0, 3, 0, 1, 2)	17	$x_2^2 x_3 x_4^4 x_6^4 x_8^4 x_9 x_{10}$	1
(5, 2, 3, 0)	(0, 1, 0, 2, 0, 0, 2, 1, 0, 2)	18	$x_1 x_3 x_5^3 x_6^4 x_7^2 x_8 x_9^4 x_{10}^2$	$-1 \cdot 2$
(5, 1, 3, 1)	(0, 0, 1, 0, 2, 0, 2, 2, 3, 0)	18	$x_2^2 x_4^2 x_5^2 x_6^4 x_7^2 x_8^2 x_{10}^4$	1
(5, 1, 4, 0)	(0, 0, 2, 0, 0, 1, 0, 2, 2, 2)	21	$x_2^2 x_4^2 x_5^4 x_7^4 x_8^3 x_9^3 x_{10}^3$	-1
(5, 0, 5, 0)	(0, 0, 0, 2, 0, 0, 2, 2, 2, 2) (0, 0, 0, 2, 0, 2, 2, 0, 2, 2)	40 40	$x_1^4 x_2^4 x_3^4 x_4^4 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4$ $x_1^4 x_2^4 x_3^4 x_4^4 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4$	$2^2 \cdot 157$ $-1 \cdot 3^2 \cdot 5 \cdot 197$
(4, 6, 0, 0)	(0, 1, 0, 1, 0, 1, 0, 1, 1, 1)	27	$x_3 x_4^2 x_5^3 x_6^3 x_7^3 x_8^5 x_9^5 x_{10}^5$	2
(4, 5, 0, 1)	(0, 1, 0, 0, 1, 0, 1, 3, 1, 1)	21	$x_1 x_3 x_4^3 x_5 x_6^3 x_7^4 x_9^4 x_{10}^4$	-1
(4, 4, 0, 2)	(0, 0, 1, 0, 0, 1, 1, 3, 1, 3)	19	$x_2^3 x_4^2 x_5^3 x_6^3 x_7^3 x_8 x_9^3 x_{10}$	1
(4, 3, 0, 3)	(0, 1, 0, 1, 0, 1, 0, 3, 3, 3)	17	$x_1 x_3 x_4 x_5^3 x_6^2 x_7^3 x_8^2 x_9^2 x_{10}^2$	1
(4, 5, 1, 0)	(0, 0, 1, 0, 1, 0, 1, 2, 1, 1)	22	$x_2^2 x_4^2 x_5^3 x_6^3 x_7^4 x_9^4 x_{10}^4$	2
(4, 4, 1, 1)	(0, 0, 1, 0, 1, 0, 1, 3, 1, 2)	18	$x_2^2 x_3 x_4^3 x_5^3 x_6^3 x_7^3 x_9^3$	1
(4, 3, 1, 2)	(0, 0, 1, 0, 0, 2, 3, 1, 3, 1)	16	$x_2^3 x_3^2 x_4^2 x_5^3 x_7 x_8^2 x_9 x_{10}^2$	1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(4, 4, 2, 0)	(0, 1, 0, 1, 0, 1, 0, 2, 1, 2)	18	$x_1 x_3 x_4^2 x_5^3 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}$	-1
(4, 3, 2, 1)	(0, 0, 1, 0, 2, 0, 2, 1, 1, 3)	16	$x_2^3 x_3 x_4^3 x_5 x_6^3 x_7 x_8^2 x_9^2$	-1 · 2
(4, 2, 2, 2)	(0, 1, 0, 0, 2, 3, 0, 1, 3, 2)	14	$x_1 x_2 x_3^2 x_4^3 x_6 x_7^3 x_8 x_9 x_{10}$	2
(4, 3, 3, 0)	(0, 0, 1, 1, 0, 0, 1, 2, 2, 2)	18	$x_2^3 x_3 x_4 x_5^2 x_6^3 x_7^2 x_8^2 x_9^2 x_{10}^2$	-1
(4, 2, 3, 1)	(0, 0, 1, 0, 2, 2, 2, 3, 0, 1)	16	$x_2^2 x_3 x_4^3 x_5^2 x_6^2 x_7^2 x_8^3 x_{10}$	-1 · 3
(4, 2, 4, 0)	(0, 0, 1, 2, 0, 2, 2, 2, 1, 0)	19	$x_2^3 x_3^3 x_4^3 x_7^3 x_8^3 x_9 x_{10}^3$	2
(4, 1, 4, 1)	(0, 1, 0, 2, 0, 2, 2, 3, 0, 2)	17	$x_1 x_3 x_3^3 x_6^3 x_7^3 x_8^3 x_{10}^3$	-1 · 3
(4, 1, 5, 0)	(0, 0, 2, 0, 0, 1, 2, 2, 2, 2)	22	$x_2^3 x_3 x_4^2 x_5^3 x_7 x_8^4 x_9^4 x_{10}^4$	-1
(4, 0, 6, 0)	(0, 0, 2, 0, 0, 2, 2, 2, 2, 2)	41	$x_1^3 x_2^3 x_3^4 x_4^3 x_5^3 x_6^5 x_7^5 x_8^5 x_9^5 x_{10}^5$	$2^3 \cdot 5^2$
(3, 7, 0, 0)	(0, 1, 0, 1, 0, 1, 1, 1, 1, 1)	31	$x_3 x_4 x_5^2 x_6^3 x_7^6 x_8^6 x_9^6 x_{10}^6$	-1 · 2
(3, 6, 0, 1)	(0, 1, 0, 1, 0, 1, 3, 1, 1, 1)	25	$x_2 x_3^2 x_4 x_5^2 x_6^4 x_8^5 x_9^5 x_{10}^5$	1
(3, 5, 0, 2)	(0, 0, 1, 0, 1, 1, 3, 1, 3, 1)	21	$x_2^2 x_4^2 x_5^3 x_6^4 x_7 x_8^4 x_9 x_{10}^4$	2
(3, 4, 0, 3)	(0, 0, 1, 0, 1, 1, 3, 1, 3, 3)	19	$x_2^2 x_3^2 x_4^2 x_5 x_6^3 x_7^2 x_8^3 x_9^2 x_{10}^2$	-1
(3, 6, 1, 0)	(0, 1, 0, 1, 0, 1, 2, 1, 1, 1)	24	$x_1 x_3 x_4 x_5^2 x_6^4 x_8^5 x_9^5 x_{10}^5$	-1
(3, 5, 1, 1)	(0, 0, 1, 0, 1, 1, 2, 1, 1, 3)	20	$x_2^2 x_3 x_4^2 x_5^3 x_6^4 x_8^4 x_9^4$	1
(3, 4, 1, 2)	(0, 1, 0, 0, 1, 1, 3, 1, 3, 2)	16	$x_1^2 x_3 x_4^2 x_5^3 x_6^3 x_7 x_8^3 x_9$	-1
(3, 3, 1, 3)	(0, 0, 1, 0, 1, 1, 3, 3, 2, 3)	16	$x_2^2 x_3^2 x_4^2 x_5^2 x_6^2 x_7^2 x_8^2 x_{10}^2$	3
(3, 5, 2, 0)	(0, 0, 1, 1, 0, 1, 2, 1, 1, 2)	21	$x_2^2 x_3 x_4^2 x_5^2 x_6^4 x_7 x_8^4 x_9^4 x_{10}$	-1 · 2 <sup>2</sup>
(3, 4, 2, 1)	(0, 0, 1, 0, 2, 3, 1, 2, 1, 1)	17	$x_2^2 x_3^2 x_4^2 x_5 x_6^3 x_7 x_8^3 x_9^3 x_{10}^3$	-1 · 2
(3, 3, 2, 2)	(0, 0, 1, 1, 0, 3, 2, 3, 1, 2)	15	$x_1 x_2^2 x_3^2 x_4^2 x_5^2 x_6 x_7 x_8 x_9^2 x_{10}$	1
(3, 4, 3, 0)	(0, 0, 1, 1, 0, 1, 2, 2, 2, 1)	19	$x_2^2 x_4^3 x_5^2 x_6^3 x_7^2 x_8^2 x_9^2 x_{10}^3$	-1
(3, 3, 3, 1)	(0, 1, 0, 1, 0, 1, 2, 2, 3, 2)	15	$x_1 x_3^2 x_4^2 x_5^2 x_6^2 x_7^2 x_8^2 x_{10}^2$	-1 · 3
(3, 2, 3, 2)	(0, 0, 1, 0, 2, 3, 1, 2, 2, 3)	15	$x_1 x_2^2 x_3 x_4^2 x_5^2 x_6 x_7 x_8^2 x_9^2 x_{10}$	2
(3, 3, 4, 0)	(0, 0, 1, 2, 2, 1, 0, 1, 2, 2)	19	$x_2^2 x_3 x_4^2 x_5^3 x_6 x_7^2 x_8^2 x_9^2 x_{10}^3$	-1 · 2
(3, 2, 4, 1)	(0, 0, 1, 2, 2, 2, 3, 0, 1, 2)	17	$x_1 x_2^2 x_3 x_4^2 x_5^2 x_6^3 x_8^2 x_9 x_{10}^3$	2 <sup>2</sup>
(3, 2, 5, 0)	(0, 1, 2, 0, 2, 2, 2, 1, 0, 2)	20	$x_1 x_4 x_3^3 x_6^4 x_7^4 x_8 x_9^2 x_{10}^4$	-1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(3, 1, 5, 1)	(0, 0, 1, 2, 2, 2, 2, 2, 3, 0)	20	$x_2^2 x_4 x_5^3 x_6^4 x_7^4 x_8^4 x_{10}^2$	1
(3, 1, 6, 0)	(0, 0, 2, 0, 1, 2, 2, 2, 2, 2)	25	$x_2^2 x_4^2 x_6^2 x_7^4 x_8^5 x_9^5 x_{10}$	1
(3, 0, 7, 0)	(0, 0, 2, 0, 2, 2, 2, 2, 2, 2)	46	$x_2^2 x_3^6 x_4^2 x_5^6 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6$	$-1 \cdot 2^3 \cdot 3^2$
(2, 8, 0, 0)	(1, 0, 1, 0, 1, 1, 1, 1, 1, 1)	36	$x_3 x_4 x_5^2 x_6^5 x_7^6 x_8^7 x_9^7 x_{10}^7$	-1
(2, 7, 0, 1)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 3)	30	$x_3 x_4^2 x_5^3 x_6^6 x_7^6 x_8^6 x_9^6$	$-1 \cdot 2$
(2, 6, 0, 2)	(0, 1, 0, 1, 1, 3, 1, 3, 1, 1)	24	$x_1 x_3 x_4^2 x_5^3 x_6 x_7^5 x_8 x_9^5 x_{10}^5$	$-1 \cdot 2$
(2, 5, 0, 3)	(0, 1, 0, 1, 1, 1, 3, 3, 1, 3)	22	$x_3 x_4^3 x_5^4 x_6^4 x_7^2 x_8^2 x_9^4 x_{10}^2$	1
(2, 4, 0, 4)	(0, 1, 0, 1, 1, 3, 1, 3, 3, 3)	20	$x_1 x_3 x_4 x_5^2 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3$	-1
(2, 7, 1, 0)	(0, 1, 1, 0, 1, 1, 1, 1, 1, 2)	30	$x_2 x_3 x_4 x_5^3 x_6^6 x_7^6 x_8^6 x_9^6$	$-1 \cdot 2$
(2, 6, 1, 1)	(0, 1, 0, 1, 1, 1, 1, 2, 3, 1)	24	$x_3 x_4^3 x_5^5 x_6^5 x_7^5 x_{10}^5$	1
(2, 5, 1, 2)	(0, 1, 0, 1, 1, 1, 2, 1, 3, 3)	20	$x_2^2 x_3 x_4^3 x_5^4 x_6^4 x_8^4 x_9 x_{10}$	-1
(2, 4, 1, 3)	(0, 1, 0, 1, 1, 2, 3, 3, 3, 1)	18	$x_2^2 x_3 x_4^3 x_5^3 x_7^2 x_8^2 x_9^2 x_{10}^3$	3
(2, 6, 2, 0)	(0, 1, 0, 1, 1, 1, 2, 1, 2, 1)	25	$x_3 x_4^2 x_5^5 x_6^5 x_7 x_8^5 x_9 x_{10}^5$	$-1 \cdot 2^2$
(2, 5, 2, 1)	(0, 1, 0, 1, 1, 2, 1, 1, 3, 2)	19	$x_1 x_3 x_4^3 x_5^4 x_6 x_7^4 x_8^4 x_{10}$	3
(2, 4, 2, 2)	(0, 1, 0, 1, 1, 2, 3, 2, 1, 3)	17	$x_2^3 x_3 x_4^3 x_5^3 x_6 x_7 x_8 x_9^3 x_{10}$	$-1 \cdot 2^3$
(2, 3, 2, 3)	(0, 1, 0, 1, 1, 3, 3, 2, 3, 2)	15	$x_1 x_2 x_3 x_4^2 x_5^2 x_6^2 x_7 x_8 x_9^2 x_{10}$	3
	(3, 0, 1, 1, 1, 0, 3, 2, 3, 2)	15	$x_1 x_2 x_3^2 x_4^2 x_5^2 x_6^2 x_7 x_8 x_9^2 x_{10}$	5
(2, 5, 3, 0)	(0, 1, 0, 1, 1, 1, 2, 1, 2, 2)	22	$x_3 x_4^3 x_5^4 x_6^4 x_7^2 x_8^4 x_9^2 x_{10}^2$	1
(2, 4, 3, 1)	(0, 1, 0, 1, 1, 3, 2, 2, 1, 2)	18	$x_2^2 x_3 x_4^3 x_5^3 x_7^2 x_8^2 x_9^3 x_{10}^2$	1
(2, 3, 3, 2)	(0, 1, 0, 1, 2, 2, 1, 3, 3, 2)	16	$x_1 x_2^2 x_3 x_4^2 x_5^2 x_6^2 x_7^2 x_8 x_9 x_{10}^2$	2
(2, 4, 4, 0)	(0, 1, 1, 0, 1, 2, 2, 2, 1, 2)	20	$x_1 x_3 x_4 x_5^2 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3$	1
(2, 3, 4, 1)	(0, 1, 0, 1, 1, 2, 2, 3, 2, 2)	18	$x_2 x_3 x_4^2 x_5^2 x_6^3 x_7^3 x_9^3 x_{10}^3$	$-1 \cdot 2 \cdot 3$
(2, 2, 4, 2)	(0, 1, 0, 2, 3, 1, 2, 2, 3, 2)	16	$x_1 x_3 x_4^2 x_5 x_6 x_7^3 x_8^3 x_9 x_{10}^3$	2
(2, 3, 5, 0)	(0, 1, 1, 0, 2, 2, 1, 2, 2, 2)	22	$x_2 x_3 x_4 x_5^2 x_6^3 x_7^2 x_8^4 x_9^4 x_{10}^4$	1
(2, 2, 5, 1)	(0, 1, 0, 2, 2, 2, 3, 2, 2, 1)	20	$x_1 x_2 x_3 x_4^4 x_5^4 x_6^4 x_8^4 x_9$	-1
(2, 2, 6, 0)	(0, 1, 2, 0, 2, 2, 2, 1, 2, 2)	25	$x_4 x_5^3 x_6^5 x_7^5 x_8 x_9^5 x_{10}^5$	$-1 \cdot 5$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(2, 1, 6, 1)	(0, 1, 2, 2, 2, 2, 3, 0, 2)	23	$x_1 x_4^2 x_5^4 x_6^5 x_7^5 x_9 x_{10}^5$	-1
(2, 1, 7, 0)	(0, 2, 0, 2, 1, 2, 2, 2, 2)	30	$x_3 x_4^3 x_6^3 x_7^5 x_8^6 x_9^6 x_{10}^6$	1
(2, 0, 8, 0)	(0, 2, 0, 2, 2, 2, 2, 2, 2)	51	$x_1 x_3 x_4^7 x_5^7 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7$ $x_1 x_2 x_3 x_4^6 x_5^7 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7$	$-1 \cdot 2 \cdot 17^2$ $-1 \cdot 2 \cdot 1277$
(1, 9, 0, 0)	(1, 1, 0, 1, 1, 1, 1, 1, 1)	45	$x_1 x_2 x_4^2 x_5^4 x_6^6 x_7^7 x_8^8 x_9^8 x_{10}^8$	1
(1, 8, 0, 1)	(0, 1, 1, 1, 1, 1, 1, 3, 1)	37	$x_3 x_4^3 x_5^5 x_6^7 x_7^7 x_8^7 x_{10}^7$	-1
(1, 7, 0, 2)	(0, 1, 1, 1, 1, 1, 1, 3, 3)	31	$x_2 x_3 x_4^3 x_5^6 x_6^6 x_7^6 x_8^6 x_9 x_{10}$	2
(1, 6, 0, 3)	(0, 1, 1, 1, 1, 3, 3, 3, 1, 1)	27	$x_3 x_4^5 x_5^5 x_6^2 x_7^2 x_8^2 x_9^5 x_{10}^5$	$-1 \cdot 2^2$
(1, 5, 0, 4)	(0, 1, 1, 1, 1, 3, 3, 1, 3, 3)	25	$x_2 x_3^2 x_4^3 x_5^4 x_6^2 x_7^3 x_8^4 x_9^3 x_{10}^3$	2
(1, 8, 1, 0)	(0, 1, 1, 1, 1, 1, 1, 2, 1)	37	$x_3^2 x_4^2 x_5^5 x_6^7 x_7^7 x_8^7 x_{10}^7$	-1
(1, 7, 1, 1)	(1, 0, 1, 1, 1, 1, 1, 3, 2)	29	$x_3^2 x_4^3 x_5^6 x_6^6 x_7^6 x_8^6$	2
(1, 6, 1, 2)	(0, 1, 1, 1, 1, 1, 2, 3, 1, 3)	25	$x_3^3 x_4^5 x_5^5 x_6^5 x_8 x_9^5 x_{10}$	$-1 \cdot 3$
(1, 5, 1, 3)	(1, 0, 1, 1, 1, 2, 1, 3, 3, 3)	21	$x_3^3 x_4^4 x_5^4 x_7^4 x_8^2 x_9^2 x_{10}^2$	1
(1, 4, 1, 4)	(0, 1, 1, 1, 2, 3, 3, 3, 1, 3)	21	$x_3^3 x_4^3 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3$	$-1 \cdot 3$
(1, 7, 2, 0)	(0, 1, 1, 1, 1, 2, 1, 2, 1, 1)	31	$x_3^2 x_4^3 x_5^6 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6$	$-1 \cdot 2^2$
(1, 6, 2, 1)	(0, 1, 1, 1, 1, 1, 2, 3, 1, 2)	25	$x_2 x_3^2 x_4^5 x_5^5 x_6^5 x_7 x_9^5 x_{10}$	$-1 \cdot 3$
(1, 5, 2, 2)	(0, 1, 1, 1, 1, 2, 1, 3, 3, 2)	21	$x_2 x_3^4 x_4^4 x_5^4 x_6 x_7^4 x_8 x_9 x_{10}$	2
(1, 4, 2, 3)	(0, 1, 1, 1, 2, 3, 2, 1, 3, 3)	19	$x_2^2 x_3^3 x_4^3 x_5^2 x_6^2 x_7 x_8^3 x_9^2 x_{10}^2$	$2 \cdot 3$
(1, 6, 3, 0)	(1, 0, 1, 1, 1, 2, 1, 2, 1, 2)	26	$x_3 x_4^4 x_5^5 x_6^2 x_7^5 x_8^2 x_9^5 x_{10}^2$	$2 \cdot 3$
(1, 5, 3, 1)	(0, 1, 1, 1, 1, 1, 2, 2, 2, 3)	22	$x_2 x_3^3 x_4^4 x_5^4 x_6^4 x_7^2 x_8^2 x_9^2$	$-1 \cdot 2$
(1, 4, 3, 2)	(1, 0, 1, 1, 2, 1, 2, 3, 3, 2)	18	$x_1^2 x_3^2 x_4^3 x_5^2 x_6^3 x_7^2 x_8 x_9 x_{10}^2$	$-1 \cdot 2$
(1, 3, 3, 3)	(0, 1, 1, 1, 2, 2, 2, 3, 3, 3)	18	$x_2^2 x_3^2 x_4^2 x_5^2 x_6^2 x_7^2 x_8^2 x_9^2 x_{10}^2$	-1
(1, 5, 4, 0)	(0, 1, 1, 1, 1, 2, 1, 2, 2, 2)	25	$x_2 x_3 x_4^3 x_5^4 x_6^3 x_7^4 x_8^3 x_9^3 x_{10}^3$	1
(1, 4, 4, 1)	(0, 1, 1, 1, 2, 1, 2, 2, 3, 2)	21	$x_2 x_3^2 x_4^3 x_5^3 x_6^3 x_7^3 x_8^3 x_{10}^3$	1
(1, 3, 4, 2)	(0, 1, 1, 1, 2, 2, 3, 2, 2, 3)	19	$x_2 x_3^2 x_4^2 x_5^3 x_6^3 x_7 x_8^3 x_9^3 x_{10}$	$2^3$
(1, 4, 5, 0)	(0, 1, 1, 1, 2, 2, 2, 1, 2, 2)	25	$x_3^2 x_4^2 x_5^2 x_6^4 x_7^4 x_8^3 x_9^4 x_{10}^4$	3

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(1, 3, 5, 1)	(1, 0, 1, 1, 2, 2, 3, 2, 2, 2)	21	$x_3 x_4^2 x_5^2 x_6^4 x_8^4 x_9^4 x_{10}^4$	-1
(1, 2, 5, 2)	(0, 1, 2, 1, 2, 3, 2, 2, 2, 3)	21	$x_3^2 x_4 x_5^4 x_6 x_7^4 x_8^4 x_9^4 x_{10}$	1
(1, 3, 6, 0)	(0, 1, 1, 2, 2, 1, 2, 2, 2, 2)	27	$x_3 x_4^2 x_5^3 x_6^2 x_7^4 x_8^5 x_9^5 x_{10}^5$	1
(1, 2, 6, 1)	(0, 1, 2, 2, 2, 3, 2, 2, 1, 2)	25	$x_2 x_4^3 x_5^5 x_7^5 x_8^5 x_9 x_{10}^5$	-1 · 2
(1, 2, 7, 0)	(1, 2, 0, 2, 2, 2, 1, 2, 2, 2)	30	$x_4^2 x_5^4 x_6^5 x_7 x_8^6 x_9^6 x_{10}^6$	-1
(1, 1, 7, 1)	(0, 1, 2, 2, 2, 2, 2, 3, 2, 2)	30	$x_4^2 x_5^4 x_6^6 x_7^6 x_9^6 x_{10}^6$	-1 · 5
(1, 1, 8, 0)	(0, 2, 2, 2, 1, 2, 2, 2, 2, 2)	37	$x_3^3 x_4^3 x_6^4 x_7^6 x_8^7 x_9^7 x_{10}^7$	1
(1, 0, 9, 0)	(0, 2, 2, 2, 2, 2, 2, 2, 2, 2)	60	$x_2 x_3^3 x_4^8 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8$ $x_2 x_3^3 x_4^7 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8$	-1 · 2 · 17 <sup>2</sup> -1 · 2 <sup>3</sup> · 283
(0, 10, 0, 0)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	55	$x_1^2 x_2^4 x_3 x_4^5 x_5^8 x_7^8 x_8^9 x_9^9 x_{10}^9$	-1 · 2
(0, 9, 0, 1)	(1, 1, 1, 1, 1, 1, 1, 3, 1, 1)	45	$x_2 x_3^3 x_4^5 x_5^5 x_6^7 x_7^8 x_8^8 x_{10}^8$	1
(0, 8, 0, 2)	(1, 1, 1, 1, 1, 3, 1, 1, 1, 3)	39	$x_2^2 x_3^2 x_4^5 x_5^7 x_6 x_7^7 x_8^7 x_9^7 x_{10}$	2
(0, 7, 0, 3)	(1, 1, 1, 1, 1, 1, 1, 3, 3, 3)	33	$x_2 x_3^3 x_4^5 x_5^6 x_6^6 x_7^6 x_8^2 x_9^2 x_{10}^2$	-1 · 2
(0, 6, 0, 4)	(1, 1, 1, 1, 1, 3, 3, 3, 1, 3)	31	$x_2^2 x_3^2 x_4^5 x_5^5 x_6^3 x_7^3 x_8^3 x_9^5 x_{10}^3$	-1 · 5
(0, 5, 0, 5)	(1, 1, 1, 1, 3, 3, 1, 3, 3, 3)	29	$x_2 x_3^3 x_4^4 x_5 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4$	-1
(0, 9, 1, 0)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 2)	46	$x_1 x_2 x_3^3 x_4^4 x_5^6 x_6^7 x_7^8 x_8^8 x_9^8$	2
(0, 8, 1, 1)	(1, 1, 1, 1, 1, 1, 1, 3, 1, 2)	38	$x_1 x_2 x_3^3 x_4^5 x_5^7 x_6^7 x_7^7 x_9^7$	-1 · 3
(0, 7, 1, 2)	(1, 1, 1, 1, 1, 1, 3, 1, 2, 3)	32	$x_2^2 x_3^4 x_4^6 x_5^6 x_6^6 x_7 x_8^6 x_{10}$	-1 · 3
(0, 6, 1, 3)	(1, 1, 1, 1, 1, 2, 3, 1, 3, 3)	28	$x_1 x_2 x_3^5 x_4^5 x_5^5 x_7^2 x_8^5 x_9^2 x_{10}^2$	-1
(0, 5, 1, 4)	(1, 1, 1, 1, 2, 3, 1, 3, 3, 3)	26	$x_2^2 x_3^4 x_4^4 x_6^3 x_7^4 x_8^3 x_9^3 x_{10}^3$	1
(0, 8, 2, 0)	(1, 1, 1, 1, 1, 1, 1, 2, 1, 2)	38	$x_2 x_3^2 x_4^5 x_5^7 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}$	-1
(0, 7, 2, 1)	(1, 1, 1, 1, 1, 1, 1, 2, 3, 2)	32	$x_1 x_2^2 x_3^3 x_4^6 x_5^6 x_6^6 x_7^6 x_8 x_{10}$	2
(0, 6, 2, 2)	(1, 1, 1, 1, 1, 1, 3, 2, 3, 2)	26	$x_2^3 x_3^4 x_4^5 x_5^5 x_6^5 x_7 x_8 x_9 x_{10}$	-1 · 2
(0, 5, 2, 3)	(1, 1, 1, 1, 1, 2, 3, 2, 3, 3)	24	$x_1 x_2^3 x_3^4 x_4^4 x_5^4 x_6 x_7^2 x_8 x_9^2 x_{10}^2$	2 · 3
(0, 4, 2, 4)	(1, 1, 1, 2, 3, 2, 1, 3, 3, 3)	22	$x_2^2 x_3^3 x_4 x_5^3 x_6 x_7^3 x_8^3 x_9^3 x_{10}^3$	2 <sup>2</sup> · 3
(0, 7, 3, 0)	(1, 1, 1, 1, 1, 1, 2, 2, 1, 2)	34	$x_1 x_2 x_3^3 x_4^5 x_5^6 x_6^6 x_7^2 x_8^2 x_9^6 x_{10}^2$	-1 · 3



$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(0, 6, 3, 1)	(1, 1, 1, 1, 1, 1, 2, 2, 3, 2)	28	$x_2^3 x_3^4 x_4^5 x_5^5 x_6^2 x_7^2 x_8^2 x_{10}^2$	$-1 \cdot 2$
(0, 5, 3, 2)	(1, 1, 1, 1, 2, 1, 2, 2, 3, 3)	24	$x_1^2 x_2^2 x_3^4 x_4^4 x_5^2 x_6^4 x_7^2 x_8^2 x_9 x_{10}$	$-1 \cdot 2$
(0, 4, 3, 3)	(1, 1, 1, 2, 1, 2, 2, 3, 3, 3)	22	$x_1 x_2^3 x_3^3 x_4^2 x_5^3 x_6^2 x_7^2 x_8^2 x_9^2 x_{10}^2$	$-1 \cdot 2^2$
(0, 6, 4, 0)	(1, 1, 1, 1, 1, 2, 2, 1, 2, 2)	31	$x_2^3 x_3^2 x_4^4 x_5^5 x_6^3 x_7^5 x_8^3 x_9^3 x_{10}^3$	$-1 \cdot 2$
(0, 5, 4, 1)	(1, 1, 1, 1, 1, 2, 2, 2, 3, 2)	25	$x_1 x_2 x_3^3 x_4^4 x_5^4 x_6^3 x_7^3 x_8^3 x_{10}^3$	$-1$
(0, 4, 4, 2)	(1, 1, 1, 2, 1, 2, 3, 2, 2, 3)	23	$x_2^3 x_3^3 x_4^3 x_5^3 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}$	$-1 \cdot 2^2$
(0, 3, 4, 3)	(1, 1, 1, 2, 2, 2, 3, 3, 3, 2)	21	$x_2 x_3^2 x_4^3 x_5^3 x_6^3 x_7^2 x_8^2 x_9^2 x_{10}^3$	3
(0, 5, 5, 0)	(1, 1, 1, 1, 2, 2, 1, 2, 2, 2)	30	$x_2 x_3^3 x_4^4 x_5^2 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4$	3
(0, 4, 5, 1)	(1, 1, 1, 2, 1, 2, 2, 2, 3, 2)	26	$x_1 x_2 x_3^2 x_4^3 x_5^3 x_6^4 x_7^4 x_8^4 x_{10}^4$	$-1$
(0, 3, 5, 2)	(1, 1, 2, 1, 2, 2, 2, 3, 2, 3)	24	$x_2 x_3^3 x_4^2 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}$	1
(0, 4, 6, 0)	(1, 1, 1, 2, 2, 2, 1, 2, 2, 2)	30	$x_2 x_3^2 x_4 x_5^3 x_6^5 x_7^5 x_8^5 x_9^5 x_{10}^5$	$-1 \cdot 3$
(0, 3, 6, 1)	(1, 1, 1, 2, 2, 2, 2, 3, 2, 2)	28	$x_2^2 x_3^2 x_4 x_5^3 x_6^5 x_7^5 x_9^5 x_{10}^5$	5
(0, 2, 6, 2)	(1, 1, 2, 2, 3, 2, 2, 2, 3, 2)	26	$x_2 x_3^2 x_4^2 x_5 x_6^4 x_7^5 x_8^5 x_9 x_{10}^5$	1
(0, 3, 7, 0)	(1, 1, 2, 2, 2, 2, 1, 2, 2, 2)	34	$x_1 x_2 x_3 x_4^2 x_5^4 x_6^5 x_7^2 x_8^6 x_9^6 x_{10}^6$	1
(0, 2, 7, 1)	(1, 1, 2, 2, 2, 2, 3, 2, 2, 2)	32	$x_2 x_3 x_4^2 x_5^4 x_6^6 x_8^6 x_9^6 x_{10}^6$	$-1$
(0, 2, 8, 0)	(1, 2, 2, 2, 2, 1, 2, 2, 2, 2)	39	$x_3^2 x_4^3 x_5^6 x_6 x_7^6 x_8^7 x_9^7 x_{10}^7$	1
(0, 1, 8, 1)	(1, 2, 2, 2, 2, 2, 3, 2, 2, 2)	37	$x_3^2 x_4^3 x_5^5 x_6^6 x_8^7 x_9^7 x_{10}^7$	$-1$
(0, 1, 9, 0)	(2, 2, 2, 2, 1, 2, 2, 2, 2, 2)	46	$x_2^2 x_3^3 x_4^5 x_6^5 x_7^8 x_8^8 x_9^8 x_{10}^8$	1
(0, 0, 10, 0)	(2, 2, 2, 2, 2, 2, 2, 2, 2, 2)	69	$x_1^2 x_2^2 x_3^4 x_4^9 x_5^7 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9$	$2^5 \cdot 3^2 \cdot 5$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(10, 0, 0, 0, 0)	(0, 0, 0, 0, 0, 0, 0, 0, 0, 0)	89	$x_1^8 x_2^9 x_3^9 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9$ $x_1^9 x_2^8 x_3^9 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9$	$2^5 \cdot 7 \cdot 11^2 \cdot 21966239$ $2 \cdot 13 \cdot 211 \cdot 256046627$
(9, 1, 0, 0, 0)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0)	52	$x_2^2 x_3^4 x_4^7 x_5^8 x_7^8 x_8^8 x_9^8 x_{10}^8$	$-1 \cdot 2^2$
(8, 2, 0, 0, 0)	(0, 0, 0, 1, 0, 0, 0, 1, 0, 0)	36	$x_1 x_2^3 x_3^6 x_5^5 x_6^7 x_8 x_9^6 x_{10}^7$	$-1$
(8, 1, 1, 0, 0)	(0, 0, 0, 1, 0, 0, 0, 2, 0, 0)	35	$x_1 x_2^3 x_3^6 x_5^5 x_6^7 x_9^6 x_{10}^7$	$-1$
(8, 1, 0, 0, 1)	(0, 0, 0, 0, 1, 0, 0, 0, 0, 4)	44	$x_1 x_2^3 x_3^6 x_4^7 x_6^6 x_7^7 x_8^7 x_9^7$	$-1 \cdot 2^2$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(7, 3, 0, 0, 0)	(0, 0, 1, 0, 0, 1, 0, 0, 1, 0)	27	$x_1 x_2^3 x_4^3 x_5^5 x_6 x_8^6 x_9^2 x_{10}^6$	1
(7, 2, 1, 0, 0)	(0, 0, 1, 0, 0, 1, 0, 0, 2, 0)	25	$x_1 x_2^3 x_4^3 x_5^5 x_6 x_8^6 x_{10}^6$	1
(7, 2, 0, 1, 0)	(0, 0, 1, 0, 0, 0, 1, 0, 0, 3)	29	$x_1 x_2^3 x_4^2 x_5^5 x_6^6 x_7 x_8^5 x_9^6$	$-1 \cdot 2$
(7, 2, 0, 0, 1)	(0, 0, 0, 1, 0, 0, 1, 0, 0, 4)	30	$x_2^2 x_3^4 x_4 x_5^5 x_6^6 x_7 x_8^5 x_9^6$	2
(7, 1, 1, 1, 0)	(0, 0, 2, 0, 0, 1, 0, 0, 3, 0)	24	$x_1 x_2^3 x_4^3 x_5^5 x_8^6 x_{10}^6$	1
(6, 4, 0, 0, 0)	(0, 0, 1, 0, 1, 0, 1, 0, 1, 0)	22	$x_2^2 x_3 x_4^2 x_5^2 x_6^3 x_8^4 x_9^3 x_{10}^5$	1
(6, 3, 1, 0, 0)	(0, 1, 0, 0, 1, 0, 0, 1, 0, 2)	21	$x_1 x_3 x_4^3 x_5 x_6^3 x_7^5 x_8^2 x_9^5$	$-1$
(6, 3, 0, 1, 0)	(0, 0, 1, 0, 1, 0, 0, 1, 0, 3)	22	$x_2^2 x_3 x_4^3 x_5 x_6^3 x_7^5 x_8^2 x_9^5$	1
(6, 3, 0, 0, 1)	(0, 0, 1, 0, 0, 1, 0, 1, 0, 4)	22	$x_2^2 x_4^2 x_5^4 x_6^2 x_7^5 x_8^2 x_9^5$	1
(6, 2, 2, 0, 0)	(0, 0, 2, 0, 1, 0, 1, 0, 2, 0)	18	$x_2^2 x_4^2 x_6^3 x_7 x_8^4 x_9 x_{10}^5$	1
(6, 2, 1, 1, 0)	(0, 0, 1, 0, 2, 0, 1, 0, 3, 0)	17	$x_2^2 x_4^2 x_6^3 x_7 x_8^4 x_{10}^5$	1
(6, 2, 1, 0, 1)	(0, 0, 1, 0, 1, 0, 2, 0, 4, 0)	17	$x_2^2 x_4^2 x_5 x_6^3 x_8^4 x_{10}^5$	1
(6, 2, 0, 1, 1)	(0, 0, 1, 0, 0, 3, 0, 4, 0, 1)	20	$x_2^2 x_4^2 x_5^5 x_7^5 x_9^5 x_{10}$	1
(6, 2, 0, 0, 2)	(0, 0, 1, 0, 0, 1, 0, 0, 4, 4)	25	$x_1 x_2^3 x_4^4 x_5^5 x_6 x_7^4 x_8^5 x_9 x_{10}$	$-1 \cdot 2$
(6, 1, 1, 1, 1)	(0, 1, 0, 0, 2, 0, 0, 4, 0, 3)	18	$x_1 x_3 x_4^3 x_6^3 x_7^5 x_9^5$	$-1$
(5, 5, 0, 0, 0)	(0, 1, 0, 1, 0, 1, 0, 1, 0, 1)	21	$x_1^2 x_3^2 x_4 x_5^3 x_6^2 x_8^3 x_9^4 x_{10}^4$	1
(5, 4, 1, 0, 0)	(0, 0, 1, 1, 0, 1, 0, 1, 0, 2)	18	$x_2^2 x_3 x_4 x_5^2 x_6^2 x_7^3 x_8^3 x_9^4$	$-1$
(5, 4, 0, 1, 0)	(0, 0, 1, 0, 1, 1, 0, 1, 0, 3)	18	$x_2^2 x_4^2 x_5^2 x_6^2 x_7^3 x_8^3 x_9^4$	$-1$
(5, 4, 0, 0, 1)	(0, 0, 1, 0, 1, 0, 1, 1, 0, 4)	18	$x_2^2 x_4^2 x_5 x_6^3 x_7^3 x_8^3 x_9^4$	$-1$
(5, 3, 2, 0, 0)	(0, 0, 1, 2, 0, 1, 0, 2, 1, 0)	16	$x_2^2 x_3^2 x_6 x_7^4 x_8 x_9^2 x_{10}^4$	1
(5, 3, 1, 1, 0)	(0, 0, 1, 0, 1, 2, 0, 3, 1, 0)	15	$x_2^2 x_4^2 x_5 x_7^4 x_9^2 x_{10}^4$	1
(5, 3, 1, 0, 1)	(0, 0, 1, 0, 1, 0, 2, 4, 0, 1)	15	$x_2^2 x_4^2 x_5 x_6^4 x_9^4 x_{10}^2$	$-1$
(5, 3, 0, 2, 0)	(0, 0, 1, 0, 3, 3, 0, 1, 0, 1)	16	$x_2^2 x_4^2 x_5 x_6^3 x_7 x_8^4 x_9^2 x_{10}^2$	$-1$
(5, 3, 0, 1, 1)	(0, 1, 0, 0, 1, 0, 1, 0, 4, 3)	17	$x_1 x_3 x_4^3 x_5^2 x_6^4 x_7^2 x_8^4$	$-1$
(5, 3, 0, 0, 2)	(0, 0, 1, 0, 1, 0, 1, 0, 4, 4)	19	$x_2^2 x_3 x_4^3 x_5 x_6^4 x_7^2 x_8^4 x_9 x_{10}$	$-1$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(5, 2, 2, 1, 0)	(0, 0, 1, 0, 2, 0, 1, 3, 0, 2)	14	$x_2^2 x_4^2 x_6^4 x_7 x_9^4 x_{10}$	-1
(5, 2, 2, 0, 1)	(0, 1, 0, 1, 0, 2, 0, 4, 0, 2)	13	$x_1 x_3 x_4 x_5^2 x_7^3 x_9^4 x_{10}$	-1
(5, 2, 1, 1, 1)	(0, 0, 1, 1, 0, 2, 0, 4, 0, 3)	13	$x_2^2 x_3 x_4 x_5^2 x_7^3 x_9^4$	-1
(5, 2, 1, 0, 2)	(0, 0, 1, 0, 1, 2, 0, 4, 0, 4)	14	$x_2^2 x_4^3 x_5 x_7^3 x_9^4 x_{10}$	-1
(4, 6, 0, 0, 0)	(0, 1, 1, 0, 1, 0, 1, 0, 1, 1)	24	$x_2^2 x_3^2 x_4 x_5^4 x_6^2 x_8^3 x_9^5 x_{10}^5$	1
(4, 5, 1, 0, 0)	(0, 0, 1, 1, 1, 0, 1, 0, 2, 1)	19	$x_2^2 x_4^2 x_5^2 x_6^2 x_7^4 x_8^3 x_{10}^4$	-1
(4, 5, 0, 1, 0)	(0, 0, 1, 0, 1, 1, 1, 0, 3, 1)	19	$x_2^2 x_4^2 x_5 x_6^3 x_7^4 x_8^3 x_{10}^4$	-1
(4, 5, 0, 0, 1)	(0, 0, 1, 0, 1, 0, 1, 1, 4, 1)	19	$x_2^2 x_4^2 x_5 x_6^3 x_7^4 x_8^3 x_{10}^4$	1
(4, 4, 2, 0, 0)	(0, 0, 1, 1, 0, 1, 1, 0, 2, 2)	16	$x_2^2 x_4 x_5^2 x_6^3 x_7^3 x_8^3 x_9 x_{10}$	-1
(4, 4, 1, 1, 0)	(0, 0, 1, 0, 2, 1, 3, 0, 1, 1)	15	$x_2^2 x_4^2 x_6^2 x_8^3 x_9^3 x_{10}^3$	-1
(4, 4, 1, 0, 1)	(0, 1, 0, 1, 0, 1, 1, 0, 4, 2)	14	$x_1 x_3 x_4 x_5^2 x_6^3 x_7^3 x_8^3$	1
(4, 4, 0, 2, 0)	(0, 1, 0, 1, 1, 0, 1, 0, 3, 3)	15	$x_1 x_3 x_4 x_5^2 x_6^2 x_7^3 x_8^3 x_9 x_{10}$	-1
(4, 4, 0, 1, 1)	(0, 0, 1, 1, 0, 1, 1, 0, 4, 3)	15	$x_2^2 x_3 x_4 x_5^2 x_6^3 x_7^3 x_8^3$	1
(4, 4, 0, 0, 2)	(0, 0, 1, 0, 1, 1, 1, 0, 4, 4)	16	$x_2^2 x_4^2 x_5^2 x_6^2 x_7^3 x_8^3 x_9 x_{10}$	-1
(4, 3, 3, 0, 0)	(0, 0, 1, 1, 0, 2, 2, 2, 0, 1)	15	$x_2^2 x_4 x_5^2 x_6 x_7^2 x_8^2 x_9^3 x_{10}^2$	-1
(4, 3, 2, 1, 0)	(0, 1, 0, 1, 2, 0, 3, 1, 0, 2)	12	$x_1 x_3 x_4 x_6^3 x_8^2 x_9^3 x_{10}$	-1
(4, 3, 2, 0, 1)	(0, 0, 1, 1, 0, 2, 4, 0, 1, 2)	13	$x_2^2 x_3 x_4 x_5^3 x_8^3 x_9^2 x_{10}$	1
(4, 3, 1, 2, 0)	(0, 0, 1, 1, 2, 0, 3, 1, 0, 3)	13	$x_2^2 x_3 x_4 x_6^2 x_7 x_8^2 x_9^3 x_{10}$	-1
(4, 3, 1, 1, 1)	(0, 0, 1, 0, 1, 2, 4, 0, 1, 3)	12	$x_2^2 x_4^3 x_5^2 x_8^3 x_9^2$	2
(4, 3, 1, 0, 2)	(0, 0, 1, 0, 1, 0, 2, 4, 1, 4)	13	$x_2^2 x_3 x_4^2 x_5^2 x_6^3 x_9^2 x_{10}$	1
(4, 3, 0, 2, 1)	(0, 0, 1, 0, 3, 0, 3, 1, 4, 1)	13	$x_2^2 x_3^2 x_4^2 x_6^3 x_7 x_8 x_{10}^2$	1
(4, 3, 0, 1, 2)	(0, 0, 1, 0, 3, 4, 4, 0, 1, 1)	13	$x_2^2 x_4^3 x_7 x_8^3 x_9^2 x_{10}^2$	-1
(4, 3, 0, 0, 3)	(0, 1, 0, 1, 0, 1, 0, 4, 4, 4)	17	$x_1 x_3 x_4 x_5^3 x_6^2 x_7^3 x_8^2 x_9^2 x_{10}^2$	1
(4, 2, 2, 2, 0)	(0, 0, 1, 2, 0, 1, 2, 3, 3, 0)	12	$x_2^2 x_3^3 x_6 x_7 x_8 x_9 x_{10}^3$	1
(4, 2, 2, 1, 1)	(0, 0, 1, 0, 2, 1, 3, 0, 2, 4)	11	$x_2^2 x_4^3 x_5 x_6 x_8^3 x_9$	2
(4, 2, 1, 1, 2)	(0, 1, 0, 1, 2, 0, 4, 0, 4, 3)	10	$x_1 x_3^2 x_4 x_6^2 x_8^3 x_9$	1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(3, 7, 0, 0, 0)	(0, 1, 1, 1, 0, 1, 0, 1, 1, 1)	28	$x_1 x_3^2 x_4^2 x_5^2 x_6^3 x_8^6 x_9^6 x_{10}^6$	-1
(3, 6, 1, 0, 0)	(0, 0, 1, 1, 1, 1, 0, 2, 1, 1)	22	$x_2^2 x_4 x_5^3 x_6^4 x_7^2 x_9^5 x_{10}^5$	-1
(3, 6, 0, 1, 0)	(0, 0, 1, 0, 1, 1, 1, 1, 3, 1, 1)	22	$x_2^2 x_4^2 x_5 x_6^2 x_7^5 x_9^5 x_{10}^5$	-1
(3, 6, 0, 0, 1)	(0, 1, 0, 1, 0, 1, 1, 1, 4, 1, 1)	21	$x_1 x_3 x_4 x_5^2 x_6^2 x_7^4 x_9^5 x_{10}^5$	-1
(3, 5, 2, 0, 0)	(0, 0, 1, 1, 0, 1, 1, 2, 2, 1)	18	$x_2^2 x_4 x_5^2 x_6^4 x_7^3 x_8 x_9 x_{10}^4$	1
(3, 5, 1, 1, 0)	(0, 1, 0, 1, 1, 1, 0, 3, 1, 2)	16	$x_1 x_3 x_4 x_5^3 x_6^4 x_7^2 x_9^4$	1
(3, 5, 1, 0, 1)	(0, 0, 1, 1, 0, 1, 1, 1, 4, 1, 2)	17	$x_2^2 x_3 x_4 x_5^2 x_6^4 x_7^3 x_9^4$	-1
(3, 5, 0, 2, 0)	(0, 0, 1, 1, 1, 1, 0, 3, 1, 3)	18	$x_2^2 x_3 x_4 x_5^2 x_6^4 x_7^2 x_8 x_9^4 x_{10}$	-1
(3, 5, 0, 1, 1)	(0, 0, 1, 0, 1, 1, 1, 1, 4, 1, 3)	17	$x_2^2 x_4^2 x_5^2 x_6^4 x_7^3 x_9^4$	-1
(3, 5, 0, 0, 2)	(0, 0, 1, 1, 4, 1, 1, 1, 0, 4)	18	$x_2^2 x_4 x_5 x_6^3 x_7^4 x_8^4 x_9^2 x_{10}$	-1
(3, 4, 3, 0, 0)	(0, 1, 1, 0, 1, 1, 0, 2, 2, 2)	15	$x_1 x_3 x_4 x_5^2 x_6^3 x_7^2 x_8 x_9^2 x_{10}^2$	-1
(3, 4, 2, 1, 0)	(0, 0, 1, 1, 1, 0, 1, 3, 2, 2)	14	$x_2^2 x_3 x_4^2 x_5^2 x_6^2 x_7^3 x_9 x_{10}$	1
(3, 4, 2, 0, 1)	(0, 0, 1, 1, 1, 1, 0, 2, 2, 4)	14	$x_2^2 x_4^2 x_5^3 x_6^3 x_7^2 x_8 x_9$	1
(3, 4, 1, 2, 0)	(0, 0, 1, 0, 2, 1, 3, 1, 1, 3)	14	$x_2^2 x_4^2 x_6^3 x_8^3 x_9^3 x_{10}$	1
(3, 4, 1, 1, 1)	(0, 0, 1, 0, 1, 2, 4, 1, 3, 1)	13	$x_2^2 x_4^2 x_5^3 x_8^3 x_{10}^3$	1
(3, 4, 1, 0, 2)	(0, 0, 1, 1, 0, 4, 2, 1, 4, 1)	14	$x_2^2 x_4^3 x_5^2 x_6 x_8^2 x_9 x_{10}^3$	2
(3, 4, 0, 3, 0)	(0, 0, 1, 0, 3, 3, 1, 1, 3, 1)	16	$x_2^2 x_4^2 x_6 x_7^3 x_8^3 x_9^2 x_{10}^3$	-1
(3, 4, 0, 2, 1)	(0, 0, 1, 0, 3, 3, 1, 4, 1, 1)	14	$x_2^2 x_4^2 x_5 x_6 x_7^2 x_9^3 x_{10}^3$	-1
(3, 4, 0, 1, 2)	(0, 1, 0, 1, 1, 1, 0, 4, 4, 3)	13	$x_1 x_3 x_4^2 x_5^2 x_6^3 x_7^2 x_8 x_9$	1
(3, 4, 0, 0, 3)	(0, 0, 1, 1, 1, 1, 0, 4, 4, 4)	16	$x_2^2 x_3 x_4 x_5^2 x_6^3 x_7^2 x_8 x_9^2 x_{10}^2$	-1
(3, 3, 3, 1, 0)	(0, 0, 1, 1, 2, 2, 2, 0, 1, 3)	13	$x_2^2 x_4^2 x_5 x_6^2 x_7^2 x_8^2 x_9^2$	1
(3, 3, 3, 0, 1)	(0, 0, 1, 1, 0, 2, 2, 2, 1, 4)	13	$x_2^2 x_4^2 x_5^2 x_6 x_7^2 x_8^2 x_9^2$	1
(3, 3, 2, 2, 0)	(0, 0, 1, 1, 2, 0, 3, 1, 3, 2)	12	$x_2^2 x_3 x_4 x_5 x_6^2 x_7 x_8^2 x_9 x_{10}$	2
(3, 3, 2, 1, 1)	(0, 0, 1, 0, 2, 1, 3, 1, 4, 2)	11	$x_2^2 x_3 x_4^2 x_5 x_6^2 x_8^2 x_{10}$	-1
(3, 3, 2, 0, 2)	(0, 1, 0, 1, 0, 2, 4, 1, 4, 2)	11	$x_1 x_2 x_3 x_4^2 x_5^2 x_8^2 x_9 x_{10}$	-1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(3, 3, 1, 2, 1)	(0, 1, 0, 1, 2, 4, 0, 1, 3, 3)	10	$x_1 x_3 x_4^2 x_7^2 x_8^2 x_9 x_{10}$	1
(3, 3, 1, 1, 2)	(0, 0, 1, 1, 0, 2, 4, 1, 4, 3)	11	$x_2^2 x_3^2 x_4^2 x_5^2 x_8^2 x_9$	-1
(3, 3, 1, 0, 3)	(0, 0, 1, 0, 1, 2, 4, 1, 4, 4)	13	$x_2^2 x_4^2 x_5^2 x_7^2 x_8^2 x_9^2 x_{10}^2$	-1
(3, 3, 0, 2, 2)	(0, 0, 1, 0, 3, 3, 1, 1, 4, 4)	12	$x_2^2 x_3 x_4^2 x_5 x_6 x_7 x_8^2 x_9 x_{10}$	1
(3, 2, 2, 2, 1)	(0, 0, 1, 2, 1, 3, 0, 2, 4, 3)	10	$x_2^2 x_3 x_4 x_5 x_6 x_7^2 x_8 x_{10}$	2
(2, 8, 0, 0, 0)	(0, 1, 1, 1, 1, 0, 1, 1, 1, 1)	34	$x_2 x_3^2 x_4^4 x_5^6 x_6^6 x_8^6 x_9^7 x_{10}^7$	-1
(2, 7, 1, 0, 0)	(0, 1, 0, 1, 1, 1, 1, 2, 1, 1)	27	$x_3 x_4 x_5^2 x_6^5 x_7^6 x_8^6 x_9^6 x_{10}^6$	-1 · 2
(2, 7, 0, 1, 0)	(0, 1, 0, 1, 1, 1, 3, 1, 1, 1)	26	$x_1 x_3 x_4 x_5^2 x_6^4 x_8^5 x_9^6 x_{10}^6$	-1
(2, 7, 0, 0, 1)	(0, 1, 1, 0, 1, 1, 4, 1, 1, 1)	27	$x_2 x_3 x_4 x_5^2 x_6^4 x_8^6 x_9^6 x_{10}^6$	-1
(2, 6, 2, 0, 0)	(0, 1, 1, 0, 1, 1, 2, 2, 1, 1)	21	$x_1 x_3 x_4 x_5^2 x_6^4 x_7 x_8 x_9^5 x_{10}^5$	-1
(2, 6, 1, 1, 0)	(0, 1, 0, 1, 1, 1, 3, 1, 1, 2)	21	$x_2^2 x_3 x_4 x_5^2 x_6^5 x_8^5 x_9^5$	-1
(2, 6, 1, 0, 1)	(0, 1, 0, 1, 1, 1, 4, 1, 2, 1)	21	$x_2^2 x_3 x_4^2 x_5^2 x_6^4 x_8^5 x_{10}^5$	-1
(2, 6, 0, 2, 0)	(0, 1, 0, 1, 1, 1, 3, 1, 3)	22	$x_3 x_4^2 x_5^2 x_6^5 x_7^5 x_8^5 x_9^5 x_{10}$	1
(2, 6, 0, 1, 1)	(0, 1, 0, 1, 1, 1, 4, 3, 1)	21	$x_3 x_4 x_5^4 x_6^5 x_7^5 x_{10}^5$	1
(2, 6, 0, 0, 2)	(0, 1, 0, 1, 1, 1, 4, 4, 1, 1)	22	$x_3 x_4 x_5^3 x_6^5 x_7 x_8 x_9^5 x_{10}^5$	2
(2, 5, 3, 0, 0)	(0, 1, 1, 0, 1, 1, 2, 2, 1, 2)	19	$x_2 x_3 x_4 x_5^2 x_6^4 x_7^2 x_8^2 x_9^4 x_{10}^2$	2
(2, 5, 2, 1, 0)	(0, 1, 0, 1, 1, 1, 2, 2, 1, 3)	17	$x_3 x_4^2 x_5^4 x_6^4 x_7 x_8 x_9^4$	-1 · 2
(2, 5, 2, 0, 1)	(0, 1, 0, 1, 1, 1, 2, 1, 2, 4)	17	$x_3 x_4^2 x_5^4 x_6^4 x_7 x_8^4 x_9$	-1
(2, 5, 1, 2, 0)	(0, 1, 0, 1, 1, 1, 2, 3, 3, 1)	17	$x_2 x_3 x_4 x_5^4 x_6^4 x_8 x_9 x_{10}^4$	2
(2, 5, 1, 1, 1)	(0, 1, 0, 1, 1, 1, 3, 1, 4, 2)	16	$x_3 x_4^4 x_5^3 x_6^4 x_8^4$	-1
(2, 5, 1, 0, 2)	(0, 1, 1, 0, 1, 1, 4, 1, 2, 4)	16	$x_1 x_3 x_4 x_5^4 x_6^3 x_7 x_8^4 x_{10}$	-1
(2, 5, 0, 3, 0)	(0, 1, 0, 1, 1, 1, 3, 1, 3, 3)	19	$x_3 x_4^2 x_5^2 x_6^4 x_7^2 x_8^4 x_9^2 x_{10}^2$	1
(2, 5, 0, 2, 1)	(0, 1, 0, 1, 1, 1, 4, 1, 3, 3)	16	$x_1 x_3 x_4 x_5^4 x_6^3 x_8^4 x_9 x_{10}$	-1
(2, 5, 0, 1, 2)	(0, 1, 0, 1, 1, 1, 4, 1, 3, 4)	17	$x_2^2 x_3 x_4 x_5^4 x_6^3 x_7 x_8^4 x_{10}$	1
(2, 5, 0, 0, 3)	(0, 1, 0, 1, 1, 1, 4, 1, 4, 4)	19	$x_3 x_4^2 x_5^2 x_6^4 x_7^2 x_8^4 x_9^2 x_{10}^2$	1
(2, 4, 4, 0, 0)	(0, 1, 1, 1, 1, 0, 2, 2, 2, 2)	18	$x_3^2 x_4^2 x_5^3 x_6 x_7 x_8^3 x_9^3 x_{10}^3$	-1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(2, 4, 3, 1, 0)	(0, 1, 0, 1, 1, 1, 3, 2, 2, 2)	15	$x_3x_4^2x_5^3x_6^3x_8^2x_9^2x_{10}^2$	1
(2, 4, 3, 0, 1)	(0, 1, 0, 2, 1, 1, 2, 1, 4, 2)	15	$x_3x_4x_5^3x_6^3x_7^2x_8^3x_{10}^2$	2
(2, 4, 2, 2, 0)	(0, 1, 0, 1, 1, 2, 3, 1, 3, 2)	14	$x_3x_4^3x_5^3x_6x_7x_8^3x_9x_{10}$	2
(2, 4, 2, 1, 1)	(0, 1, 0, 1, 1, 1, 3, 2, 4, 2)	12	$x_1x_3x_4^2x_5^3x_6^3x_8x_{10}$	-1
(2, 4, 2, 0, 2)	(0, 1, 0, 1, 1, 1, 4, 4, 2, 2)	14	$x_2^2x_3x_4^2x_5^2x_6^3x_7x_8x_9x_{10}$	-1
(2, 4, 1, 3, 0)	(0, 1, 0, 2, 1, 3, 1, 1, 3, 3)	14	$x_1x_3x_5x_6x_7^3x_8^3x_9^2x_{10}^2$	-1
(2, 4, 1, 2, 1)	(0, 1, 0, 1, 1, 1, 3, 2, 4, 3)	13	$x_2^2x_3x_4^2x_5^3x_6^3x_7x_{10}$	1
(2, 4, 1, 1, 2)	(0, 1, 0, 1, 2, 1, 3, 1, 4, 4)	13	$x_2x_3x_4^3x_6^3x_8^3x_9x_{10}$	2
(2, 4, 1, 0, 3)	(0, 1, 0, 1, 1, 1, 4, 4, 2, 4)	15	$x_3x_4^2x_5^3x_6^3x_7^2x_8^2x_{10}^2$	-1 · 2
(2, 4, 0, 3, 1)	(0, 1, 0, 1, 1, 1, 4, 3, 3, 3)	15	$x_3x_4^2x_5^3x_6^3x_8^2x_9^2x_{10}^2$	1
(2, 4, 0, 2, 2)	(0, 1, 0, 1, 1, 1, 3, 4, 3, 4)	14	$x_2x_3x_4^2x_5^3x_6^3x_7x_8x_9x_{10}$	-1 · 2
(2, 4, 0, 1, 3)	(0, 1, 0, 3, 4, 4, 1, 4, 1, 1)	15	$x_2x_3x_6^2x_7^3x_8^2x_9^3x_{10}^3$	1
(2, 4, 0, 0, 4)	(0, 1, 1, 1, 1, 0, 4, 4, 4, 4)	17	$x_1x_3x_4^2x_5^3x_6x_7x_8^2x_9^3x_{10}^3$	-1
(2, 3, 3, 2, 0)	(0, 1, 0, 2, 1, 3, 2, 3, 1, 2)	12	$x_1x_2x_3x_4x_5x_7^2x_8x_9^2x_{10}^2$	-1
(2, 3, 3, 1, 1)	(0, 1, 0, 2, 1, 3, 1, 4, 2, 2)	12	$x_1x_2^2x_3x_5^2x_7^2x_9^2x_{10}^2$	1
(2, 3, 3, 0, 2)	(0, 1, 0, 1, 2, 2, 2, 1, 4, 4)	13	$x_3x_4^2x_5^2x_6^2x_7^2x_8^2x_9x_{10}$	1
(2, 3, 2, 2, 1)	(3, 3, 1, 4, 2, 1, 0, 1, 0, 2)	11	$x_1x_2x_3^2x_5x_6x_7x_8^2x_9x_{10}$	1
(2, 3, 2, 1, 2)	(0, 1, 1, 2, 0, 4, 3, 1, 4, 2)	11	$x_2^2x_3^2x_4x_5x_6x_8^2x_9x_{10}$	2
(2, 3, 2, 0, 3)	(0, 1, 2, 4, 4, 4, 2, 1, 1, 0)	13	$x_2x_3x_4x_5^2x_6^2x_7x_8^2x_9^2x_{10}$	-1 · 2
(2, 3, 1, 2, 2)	(0, 2, 1, 1, 0, 4, 3, 1, 4, 3)	11	$x_3^2x_4^2x_5x_6x_7x_8^2x_9x_{10}$	1
(2, 3, 1, 1, 3)	(0, 1, 2, 1, 0, 4, 4, 4, 1, 3)	11	$x_1x_4^2x_5x_6x_7^2x_8^2x_9^2$	1
(2, 2, 2, 2, 2)	(0, 2, 0, 1, 3, 3, 4, 1, 2, 4)	9	$x_1x_3x_4x_5x_6x_7x_8x_9x_{10}$	-1
(1, 9, 0, 0, 0)	(1, 1, 1, 0, 1, 1, 1, 1, 1, 1)	42	$x_1x_2^2x_3^3x_5^5x_6^7x_8^8x_9^8x_{10}^8$	1
(1, 8, 1, 0, 0)	(1, 1, 1, 1, 2, 1, 1, 1, 0, 1)	33	$x_1x_2^2x_3^4x_4^5x_6^7x_8^7x_{10}^7$	1
(1, 8, 0, 1, 0)	(1, 1, 1, 1, 3, 1, 1, 1, 0, 1)	34	$x_1^2x_2^2x_3^3x_4^6x_6^7x_8^7x_{10}^7$	1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(1, 8, 0, 0, 1)	(1, 1, 1, 1, 4, 1, 1, 1, 0, 1)	34	$x_1 x_2^3 x_3^3 x_4^6 x_6^7 x_8^7 x_{10}^7$	1
(1, 7, 2, 0, 0)	(1, 1, 2, 2, 1, 1, 0, 1, 1, 1)	28	$x_1 x_2^3 x_4 x_5^3 x_6^3 x_8^5 x_9^6 x_{10}^6$	1
(1, 7, 1, 1, 0)	(1, 1, 1, 1, 1, 1, 2, 1, 3, 0)	27	$x_2^3 x_3^2 x_4^4 x_5^6 x_6^6 x_8^6$	-1
(1, 7, 1, 0, 1)	(4, 1, 1, 1, 1, 1, 2, 0, 1, 1)	27	$x_2 x_3 x_4^2 x_5^5 x_6^6 x_9^6 x_{10}^6$	-1 · 2
(1, 7, 0, 2, 0)	(1, 1, 1, 1, 1, 1, 3, 0, 3, 1)	28	$x_2^2 x_3^3 x_4^3 x_5^6 x_6^6 x_7 x_9 x_{10}^6$	2
(1, 7, 0, 1, 1)	(1, 3, 1, 1, 1, 1, 4, 1, 0, 1)	27	$x_1 x_2^3 x_4^3 x_5^3 x_6^6 x_8^6 x_{10}^6$	1
(1, 7, 0, 0, 2)	(1, 1, 0, 1, 1, 4, 1, 1, 1, 4)	27	$x_2 x_4^2 x_5^4 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}$	-1
(1, 6, 3, 0, 0)	(2, 1, 1, 1, 1, 2, 1, 2, 0, 1)	24	$x_1 x_3 x_4^3 x_5^5 x_6^2 x_7^5 x_8^2 x_{10}^5$	2
(1, 6, 2, 1, 0)	(1, 1, 1, 3, 1, 2, 0, 1, 1, 2)	22	$x_2 x_3^5 x_4^4 x_5^6 x_8^5 x_9^5 x_{10}$	1
(1, 6, 2, 0, 1)	(1, 2, 2, 1, 1, 0, 1, 1, 4, 1)	22	$x_1 x_3 x_4^2 x_5^3 x_7^5 x_8^5 x_{10}^5$	1
(1, 6, 1, 2, 0)	(1, 1, 2, 1, 0, 3, 3, 1, 1, 1)	22	$x_2^2 x_4^5 x_7 x_8^4 x_9^5 x_{10}^5$	-1
(1, 6, 1, 1, 1)	(1, 2, 4, 1, 3, 1, 1, 1, 0, 1)	20	$x_4^3 x_6^3 x_7^5 x_8^4 x_{10}^5$	1
(1, 6, 1, 0, 2)	(2, 1, 1, 4, 4, 1, 1, 1, 1, 0)	22	$x_2^2 x_4 x_5 x_6^4 x_7^4 x_8^5 x_9^5$	1
(1, 6, 0, 3, 0)	(1, 1, 0, 1, 1, 1, 3, 3, 3, 1)	23	$x_2 x_4^2 x_5^5 x_6^5 x_7 x_8^2 x_9^2 x_{10}^5$	1
(1, 6, 0, 2, 1)	(3, 1, 3, 0, 1, 1, 1, 1, 1, 4)	22	$x_2^2 x_3 x_5^2 x_6^3 x_7^4 x_8^5 x_9^5$	-1
(1, 6, 0, 1, 2)	(1, 4, 1, 1, 0, 1, 1, 4, 1, 3)	22	$x_2 x_3^2 x_4^4 x_6^5 x_7^4 x_8 x_9^5$	1
(1, 6, 0, 0, 3)	(4, 0, 1, 1, 1, 1, 4, 4, 1, 1)	24	$x_3 x_4 x_5^3 x_6^5 x_7^2 x_8^2 x_9^5 x_{10}^5$	2
(1, 5, 4, 0, 0)	(1, 2, 1, 2, 1, 0, 2, 1, 2, 1)	22	$x_2 x_3 x_4^2 x_5^4 x_7^3 x_8^4 x_9^3 x_{10}^4$	2
(1, 5, 3, 1, 0)	(1, 2, 0, 1, 2, 1, 3, 2, 1, 1)	19	$x_4^3 x_5^2 x_6^4 x_8^2 x_9^4 x_{10}^4$	1
(1, 5, 3, 0, 1)	(1, 2, 1, 1, 1, 2, 4, 0, 2, 1)	18	$x_2^2 x_4^4 x_5^4 x_6^2 x_9^2 x_{10}^4$	-1
(1, 5, 2, 2, 0)	(1, 2, 1, 0, 2, 1, 1, 1, 3, 3)	17	$x_3^4 x_5 x_6^2 x_7^4 x_8^4 x_9 x_{10}$	1
(1, 5, 2, 1, 1)	(0, 2, 4, 1, 1, 1, 1, 3, 1, 2)	17	$x_2 x_4 x_5^3 x_6^3 x_7^4 x_9^4 x_{10}$	-1
(1, 5, 2, 0, 2)	(4, 1, 1, 2, 1, 0, 2, 1, 1, 4)	18	$x_2 x_3^2 x_4 x_5^4 x_7 x_8^4 x_9^4 x_{10}$	3
(1, 5, 1, 3, 0)	(3, 1, 3, 1, 3, 0, 1, 2, 1, 1)	19	$x_3 x_4^4 x_5^2 x_7^4 x_9^4 x_{10}^4$	1
(1, 5, 1, 2, 1)	(0, 1, 2, 1, 3, 1, 1, 3, 4, 1)	17	$x_4^3 x_5 x_6^4 x_7^4 x_8 x_{10}^4$	-1
(1, 5, 1, 1, 2)	(1, 1, 3, 4, 0, 1, 1, 2, 4, 1)	17	$x_1 x_2^2 x_4 x_6^4 x_7^4 x_9 x_{10}^4$	3

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(1, 5, 1, 0, 3)	(1, 4, 1, 1, 1, 4, 2, 4, 0, 1)	19	$x_1 x_2^2 x_3^2 x_4^2 x_5^4 x_6^2 x_8^2 x_{10}^4$	-1 · 2
(1, 5, 0, 4, 0)	(3, 1, 1, 3, 1, 3, 1, 3, 0, 1)	22	$x_3^2 x_4^2 x_5^4 x_6^3 x_7^4 x_8^3 x_{10}^4$	-1 · 3
(1, 5, 0, 3, 1)	(4, 1, 3, 3, 3, 1, 1, 1, 0, 1)	19	$x_2^2 x_3 x_4 x_5^2 x_6^3 x_7^3 x_8^3 x_{10}^4$	-1
(1, 5, 0, 2, 2)	(1, 1, 4, 1, 3, 3, 1, 4, 1, 0)	18	$x_2^2 x_3 x_4^4 x_5 x_6 x_7^4 x_8 x_9^4$	-1 · 2
(1, 5, 0, 1, 3)	(4, 3, 4, 0, 1, 1, 1, 4, 1, 1)	18	$x_3^2 x_5 x_6 x_7^4 x_8^2 x_9^4 x_{10}^4$	-1
(1, 5, 0, 0, 4)	(1, 1, 1, 1, 0, 4, 4, 4, 4, 1)	22	$x_1 x_2 x_3^2 x_4^4 x_6 x_7^3 x_8^3 x_9^3 x_{10}^4$	1
(1, 4, 4, 1, 0)	(1, 1, 3, 2, 1, 1, 0, 2, 2, 2)	17	$x_2^3 x_4 x_5^2 x_6^3 x_8^2 x_9^3 x_{10}^3$	-1
(1, 4, 4, 0, 1)	(2, 0, 2, 1, 1, 2, 1, 4, 2, 1)	18	$x_3 x_4^2 x_5^3 x_6^3 x_7^3 x_9^3 x_{10}^3$	1
(1, 4, 3, 2, 0)	(0, 1, 2, 3, 1, 1, 1, 3, 2, 2)	16	$x_2 x_3 x_4 x_5^2 x_6^3 x_7^3 x_8 x_9^2 x_{10}^2$	-1 · 2
(1, 4, 3, 1, 1)	(1, 2, 2, 0, 1, 1, 2, 4, 1, 3)	15	$x_2^2 x_3^2 x_5^3 x_6^3 x_7^2 x_9^3$	-1
(1, 4, 3, 0, 2)	(1, 2, 1, 1, 2, 4, 1, 2, 4, 0)	16	$x_2^2 x_3^2 x_4^3 x_5^2 x_6 x_7^3 x_8^2 x_9$	-1 · 2
(1, 4, 2, 3, 0)	(1, 2, 3, 1, 1, 2, 3, 1, 0, 3)	16	$x_2^2 x_4^3 x_5^3 x_6 x_7^2 x_8^3 x_{10}^2$	-1 · 2
(1, 4, 2, 2, 1)	(1, 0, 3, 3, 2, 1, 2, 1, 4, 1)	14	$x_1^3 x_4 x_5 x_6^2 x_7 x_8^3 x_{10}^3$	-1
(1, 4, 2, 1, 2)	(1, 1, 2, 0, 4, 3, 1, 1, 2, 4)	14	$x_1 x_2^3 x_3 x_5 x_7^3 x_8^3 x_9 x_{10}$	-1 · 2 <sup>2</sup>
(1, 4, 2, 0, 3)	(1, 0, 1, 1, 1, 4, 4, 2, 4, 2)	15	$x_3 x_4^3 x_5^3 x_6^2 x_7^2 x_8 x_9^2 x_{10}$	1
(1, 4, 1, 3, 1)	(0, 1, 1, 3, 2, 1, 3, 3, 4, 1)	15	$x_3^3 x_4^2 x_6^3 x_7^2 x_8^2 x_{10}^3$	1
(1, 4, 1, 2, 2)	(1, 1, 1, 3, 4, 3, 4, 2, 0, 1)	13	$x_2^3 x_3^3 x_4 x_5 x_6 x_7 x_{10}^3$	3
(1, 4, 1, 1, 3)	(1, 3, 0, 1, 1, 2, 4, 1, 4, 4)	15	$x_1 x_4^3 x_5^3 x_7 x_8^3 x_9^2 x_{10}^2$	1
(1, 4, 1, 0, 4)	(1, 4, 4, 1, 4, 2, 1, 1, 0, 4)	18	$x_2 x_3^2 x_4^3 x_5^3 x_7^3 x_8^3 x_{10}^3$	-1 · 2 <sup>2</sup>
(1, 4, 0, 3, 2)	(0, 1, 3, 4, 1, 3, 1, 3, 1, 4)	16	$x_2^2 x_3^3 x_6^2 x_7^3 x_8^2 x_9^3 x_{10}$	1
(1, 4, 0, 2, 3)	(1, 1, 0, 3, 4, 4, 1, 4, 3, 1)	16	$x_2^3 x_4 x_5^2 x_6 x_7^3 x_8^2 x_9 x_{10}^3$	1
(1, 3, 3, 3, 0)	(0, 2, 1, 3, 3, 2, 3, 2, 1, 1)	15	$x_3 x_4^2 x_5^2 x_6^2 x_7^2 x_8^2 x_9^2 x_{10}^2$	1
(1, 3, 3, 2, 1)	(0, 2, 4, 2, 1, 1, 3, 3, 1, 2)	13	$x_2 x_4^2 x_5^2 x_6^2 x_7 x_8 x_9^2 x_{10}^2$	1
(1, 3, 3, 1, 2)	(1, 0, 3, 2, 1, 1, 4, 2, 4, 2)	12	$x_4^2 x_5^2 x_6^2 x_7 x_8^2 x_9 x_{10}^2$	-1
(1, 3, 2, 2, 2)	(0, 4, 1, 1, 2, 4, 2, 3, 1, 3)	12	$x_2 x_3^2 x_4^2 x_5 x_6 x_7 x_8 x_9^2 x_{10}$	2 <sup>2</sup>



$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(1, 3, 2, 1, 3)	(0, 4, 4, 1, 2, 4, 2, 1, 3, 1)	13	$x_2^2 x_3 x_4^2 x_5 x_6^2 x_7 x_8^2 x_{10}^2$	$-1 \cdot 2^2$
(0, 10, 0, 0, 0)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	51	$x_1 x_2^2 x_3^3 x_4^4 x_5^7 x_6^8 x_8^8 x_9^9 x_{10}^9$	-1
(0, 9, 1, 0, 0)	(1, 1, 1, 1, 2, 1, 1, 1, 1, 1)	43	$x_1^2 x_2^2 x_3^3 x_4^6 x_7^7 x_8^8 x_9^8 x_{10}^8$	-1
(0, 9, 0, 1, 0)	(3, 1, 1, 1, 1, 1, 1, 1, 1, 1)	43	$x_2 x_3^3 x_4^5 x_5^7 x_8^8 x_9^8 x_{10}^8$	1
(0, 9, 0, 0, 1)	(1, 1, 1, 1, 4, 1, 1, 1, 1, 1)	43	$x_1 x_2^2 x_3^4 x_4^6 x_7^7 x_8^8 x_9^8 x_{10}^8$	-1
(0, 8, 2, 0, 0)	(1, 1, 1, 1, 1, 1, 2, 1, 2, 1)	36	$x_2^2 x_3^2 x_4^3 x_5^7 x_6^7 x_8^7 x_9 x_{10}^7$	1
(0, 8, 1, 1, 0)	(2, 1, 1, 1, 1, 3, 1, 1, 1, 1)	35	$x_2^2 x_3^2 x_4^4 x_5^7 x_8^6 x_9^7 x_{10}^7$	-1
(0, 8, 1, 0, 1)	(1, 1, 1, 2, 1, 1, 1, 1, 1, 4, 1)	35	$x_1 x_2^2 x_3^4 x_5^7 x_6^7 x_8^7 x_{10}^7$	-1
(0, 8, 0, 2, 0)	(1, 1, 1, 3, 1, 1, 1, 1, 1, 3)	36	$x_1 x_2^2 x_3^5 x_4^5 x_6^7 x_8^7 x_9^7 x_{10}$	-1
(0, 8, 0, 1, 1)	(1, 1, 1, 1, 4, 3, 1, 1, 1, 1)	34	$x_1 x_2^2 x_3^3 x_4^7 x_8^7 x_9^7 x_{10}^7$	1
(0, 8, 0, 0, 2)	(1, 1, 1, 1, 4, 4, 1, 1, 1, 1)	36	$x_1^2 x_2^2 x_3^3 x_4^7 x_5 x_6 x_8^6 x_9^7 x_{10}^7$	1
(0, 7, 3, 0, 0)	(2, 2, 1, 1, 1, 1, 1, 2, 1, 1)	31	$x_2 x_3 x_4 x_5^3 x_6^5 x_7^6 x_8^2 x_9^6 x_{10}^6$	$-1 \cdot 2$
(0, 7, 2, 1, 0)	(1, 2, 1, 3, 1, 2, 1, 1, 1, 1)	29	$x_3^2 x_5^4 x_6 x_7^4 x_8^6 x_9^6 x_{10}^6$	-1
(0, 7, 2, 0, 1)	(4, 2, 1, 1, 1, 1, 1, 1, 1, 2)	28	$x_4^2 x_5^3 x_6^5 x_7^5 x_8^6 x_9^6 x_{10}$	1
(0, 7, 1, 2, 0)	(1, 3, 1, 2, 1, 3, 1, 1, 1, 1)	28	$x_3^3 x_5^3 x_6 x_7^4 x_8^5 x_9^6 x_{10}^6$	-1
(0, 7, 1, 1, 1)	(1, 1, 1, 1, 3, 1, 4, 2, 1, 1)	28	$x_1 x_2 x_3^2 x_4^6 x_6^6 x_9^6 x_{10}^6$	1
(0, 7, 1, 0, 2)	(1, 2, 1, 1, 4, 1, 1, 1, 1, 4)	29	$x_3 x_4^4 x_5 x_6^5 x_7^5 x_8^6 x_9^6 x_{10}$	-1
(0, 7, 0, 3, 0)	(3, 1, 3, 1, 1, 1, 1, 1, 3, 1)	31	$x_3^2 x_4^2 x_5^3 x_6^4 x_7^6 x_8^6 x_9^2 x_{10}^6$	1
(0, 7, 0, 2, 1)	(1, 3, 1, 1, 1, 1, 1, 4, 3, 1)	29	$x_3^2 x_4^3 x_5^5 x_6^6 x_7 x_9 x_{10}^6$	1
(0, 7, 0, 1, 2)	(1, 3, 4, 1, 1, 1, 1, 1, 4, 1)	29	$x_3 x_4^2 x_5^3 x_6^4 x_7^6 x_8^6 x_9 x_{10}^6$	-1
(0, 7, 0, 0, 3)	(4, 1, 1, 1, 4, 1, 1, 4, 1, 1)	31	$x_1 x_2 x_3 x_4^2 x_5^2 x_6^4 x_7^6 x_8^2 x_9^6 x_{10}^6$	-1
(0, 6, 4, 0, 0)	(1, 1, 1, 2, 2, 1, 1, 2, 2, 1)	28	$x_2 x_3^2 x_4 x_5^3 x_6^5 x_7^5 x_8^3 x_9^3 x_{10}^5$	2
(0, 6, 3, 1, 0)	(1, 1, 1, 1, 3, 1, 1, 2, 2, 2)	24	$x_2 x_3^2 x_4^5 x_6^5 x_7^5 x_8^2 x_9^2 x_{10}^2$	-1
(0, 6, 3, 0, 1)	(2, 1, 1, 1, 1, 1, 2, 4, 2, 1)	25	$x_3 x_4^5 x_5^5 x_6^5 x_7^2 x_9^2 x_{10}^5$	2
(0, 6, 2, 2, 0)	(1, 1, 1, 2, 3, 1, 3, 2, 1, 1)	24	$x_1 x_2 x_3^3 x_4 x_5 x_6^5 x_7 x_8 x_9^5 x_{10}^5$	2
(0, 6, 2, 1, 1)	(2, 1, 1, 1, 1, 3, 4, 2, 1, 1)	23	$x_1 x_2 x_3 x_4^4 x_5^5 x_8 x_9^5 x_{10}^5$	1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(0, 6, 2, 0, 2)	(1, 2, 4, 1, 1, 1, 1, 1, 2, 4)	24	$x_1 x_2 x_4^3 x_5^3 x_6^4 x_7^5 x_8^5 x_9 x_{10}$	1
(0, 6, 1, 3, 0)	(1, 1, 1, 1, 1, 3, 1, 2, 3, 3)	25	$x_2^2 x_3^3 x_4^4 x_5^5 x_6^2 x_7^5 x_9^2 x_{10}^2$	-1
(0, 6, 1, 2, 1)	(1, 1, 4, 2, 1, 3, 1, 1, 1, 3)	23	$x_2^3 x_3^3 x_6 x_7^5 x_8^5 x_9^5 x_{10}$	1
(0, 6, 1, 1, 2)	(1, 1, 1, 1, 3, 1, 2, 1, 4, 4)	23	$x_1 x_2 x_3^4 x_4^5 x_6^5 x_8^5 x_9 x_{10}$	1
(0, 6, 1, 0, 3)	(2, 1, 1, 4, 1, 1, 1, 1, 4, 4)	24	$x_3 x_4^2 x_5^3 x_6^5 x_7^4 x_8^5 x_9^2 x_{10}^2$	-1
(0, 6, 0, 4, 0)	(1, 3, 3, 3, 3, 1, 1, 1, 1, 1)	28	$x_1 x_3 x_4^3 x_5^3 x_6^2 x_7^4 x_8^4 x_9^5 x_{10}^5$	-1
(0, 6, 0, 3, 1)	(1, 1, 1, 4, 1, 3, 3, 1, 3, 1)	25	$x_2 x_3^4 x_4^4 x_5^2 x_6^2 x_7^5 x_8^2 x_9^5 x_{10}^5$	1
(0, 6, 0, 2, 2)	(1, 3, 4, 4, 1, 1, 1, 1, 1, 3)	23	$x_1 x_4 x_5^2 x_6^3 x_7^5 x_8^5 x_9^5 x_{10}$	1
(0, 6, 0, 1, 3)	(4, 1, 4, 1, 1, 1, 1, 4, 1, 3)	25	$x_2 x_3^2 x_4^3 x_5^3 x_6^5 x_7^4 x_8^2 x_9^5$	-1
(0, 6, 0, 0, 4)	(4, 1, 1, 1, 4, 1, 1, 1, 4, 4)	28	$x_2 x_3 x_4^3 x_5^3 x_6^5 x_7^4 x_8^5 x_9^3 x_{10}^3$	1
(0, 5, 5, 0, 0)	(1, 2, 2, 2, 1, 1, 2, 1, 2, 1)	26	$x_3^3 x_4^2 x_5^2 x_6^3 x_7^4 x_8^4 x_9^4 x_{10}^4$	-1
(0, 5, 4, 1, 0)	(2, 2, 2, 1, 1, 3, 2, 1, 1, 1)	23	$x_2^2 x_3^3 x_4 x_5^3 x_7^3 x_8^4 x_9^4 x_{10}^4$	-1
(0, 5, 4, 0, 1)	(2, 1, 1, 2, 4, 1, 2, 1, 2, 1)	23	$x_1 x_3 x_4^3 x_6^4 x_7^3 x_8^4 x_9^3 x_{10}^4$	3
(0, 5, 3, 2, 0)	(3, 3, 1, 2, 1, 2, 1, 1, 2, 1)	21	$x_2 x_3 x_5^3 x_6^2 x_7^4 x_8^4 x_9^2 x_{10}^4$	2
(0, 5, 3, 1, 1)	(2, 1, 1, 2, 1, 4, 3, 1, 2, 1)	20	$x_2 x_3^3 x_4^2 x_5^4 x_8^4 x_9^2 x_{10}^4$	-1
(0, 5, 3, 0, 2)	(1, 1, 1, 4, 2, 1, 2, 4, 2, 1)	21	$x_2 x_3^4 x_4 x_5^2 x_6^4 x_7^2 x_8 x_9^2 x_{10}^4$	3 <sup>2</sup>
(0, 5, 2, 3, 0)	(1, 3, 1, 2, 1, 1, 3, 3, 1, 2)	21	$x_2 x_3^2 x_4 x_5^4 x_6^4 x_7^2 x_8^2 x_9^4 x_{10}$	1
(0, 5, 2, 2, 1)	(1, 1, 1, 2, 3, 1, 2, 1, 4, 3)	19	$x_2^3 x_3^4 x_4 x_5 x_6^4 x_7 x_8^4 x_{10}$	-1
(0, 5, 2, 1, 2)	(2, 1, 1, 4, 3, 4, 1, 1, 2, 1)	18	$x_3^3 x_4 x_6 x_7^4 x_8^4 x_9 x_{10}^4$	-1
(0, 5, 2, 0, 3)	(1, 1, 1, 4, 2, 4, 4, 2, 1, 1)	21	$x_1 x_2 x_3^3 x_4^2 x_5 x_6^2 x_7^2 x_8 x_9^4 x_{10}^4$	-1
(0, 5, 1, 4, 0)	(1, 3, 3, 2, 1, 3, 3, 1, 1, 1)	23	$x_2 x_3^3 x_5^3 x_6^2 x_7^3 x_8^3 x_9^4 x_{10}^4$	1
(0, 5, 1, 3, 1)	(4, 1, 1, 3, 3, 1, 3, 1, 1, 2)	19	$x_2^2 x_3 x_4 x_5 x_6^4 x_7^2 x_8^4 x_9^4$	1
(0, 5, 1, 2, 2)	(3, 1, 3, 1, 1, 1, 4, 2, 1, 4)	19	$x_3 x_4^4 x_5^4 x_6^4 x_7 x_9^4 x_{10}$	1
(0, 5, 1, 1, 3)	(4, 1, 2, 1, 1, 4, 3, 1, 4, 1)	20	$x_2^2 x_4^2 x_5^4 x_6^2 x_8^4 x_9^2 x_{10}^4$	-1 · 2
(0, 5, 1, 0, 4)	(1, 4, 4, 1, 4, 2, 1, 1, 4, 1)	23	$x_2 x_3 x_4^4 x_5^3 x_7^4 x_8^3 x_9^3 x_{10}^4$	2

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 10$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(0, 5, 0, 4, 1)	(4, 3, 3, 1, 1, 1, 3, 1, 3)	23	$x_3^2 x_4 x_5^2 x_6^4 x_7^3 x_8^4 x_9^3 x_{10}^3$	2
(0, 5, 0, 3, 2)	(1, 3, 1, 1, 3, 4, 4, 1, 1, 3)	21	$x_3^4 x_4^4 x_5^2 x_7 x_8^4 x_9^4 x_{10}^2$	2
(0, 5, 0, 2, 3)	(4, 1, 1, 1, 4, 1, 1, 3, 3, 4)	21	$x_1^2 x_2 x_3^2 x_4^2 x_5^4 x_6^4 x_7^4 x_8 x_9 x_{10}^2$	$-1 \cdot 2$
(0, 5, 0, 1, 4)	(1, 4, 1, 3, 4, 4, 4, 1, 1, 1)	23	$x_2^2 x_3^4 x_5 x_6^2 x_7^3 x_8^3 x_9^4 x_{10}^4$	1
(0, 5, 0, 0, 5)	(4, 4, 4, 4, 1, 4, 1, 1, 1, 1)	26	$x_2 x_3^2 x_4^3 x_5^2 x_6^4 x_7^3 x_8^3 x_9^4 x_{10}^4$	1
(0, 4, 4, 2, 0)	(2, 1, 3, 3, 2, 2, 1, 1, 2, 1)	20	$x_2 x_4 x_5^3 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3$	1
(0, 4, 4, 1, 1)	(1, 1, 1, 3, 2, 2, 4, 1, 2, 2)	19	$x_2^2 x_3^3 x_5^2 x_6^3 x_8^3 x_9^3 x_{10}^3$	2
(0, 4, 4, 0, 2)	(2, 4, 1, 2, 2, 2, 1, 4, 1, 1)	19	$x_3 x_4^2 x_5^3 x_6^3 x_7^3 x_8 x_9^3 x_{10}^3$	$-1$
(0, 4, 3, 3, 0)	(1, 3, 3, 1, 3, 2, 2, 2, 1, 1)	19	$x_2 x_3 x_4^3 x_5^2 x_6^2 x_7^2 x_8^2 x_9^3 x_{10}^3$	1
(0, 4, 3, 2, 1)	(1, 2, 3, 1, 2, 4, 1, 3, 2, 1)	16	$x_2 x_3 x_4^3 x_5^2 x_7^3 x_8 x_9^2 x_{10}^3$	$-1 \cdot 3$
(0, 4, 3, 1, 2)	(2, 1, 1, 4, 4, 3, 1, 2, 1, 2)	17	$x_1^2 x_3^3 x_4 x_5 x_7^3 x_8^2 x_9^3 x_{10}^2$	$2^2$
(0, 4, 3, 0, 3)	(2, 1, 1, 2, 4, 1, 2, 1, 4, 4)	19	$x_1 x_2 x_3 x_4^2 x_5^2 x_6^3 x_7^2 x_8^3 x_9^2 x_{10}^2$	1
(0, 4, 2, 3, 1)	(2, 2, 1, 1, 3, 1, 3, 4, 1, 3)	17	$x_2 x_3 x_4^3 x_5^2 x_6^3 x_7^2 x_9^3 x_{10}^2$	3
(0, 4, 2, 2, 2)	(1, 1, 2, 4, 3, 4, 3, 1, 2, 1)	16	$x_1 x_2^3 x_3 x_4 x_5 x_6 x_7 x_8^3 x_9 x_{10}^3$	$2^2$
(0, 4, 2, 1, 3)	(1, 1, 1, 4, 4, 3, 1, 2, 2, 4)	17	$x_1 x_2^2 x_3^3 x_4^2 x_5^2 x_7^3 x_8 x_9 x_{10}^2$	$-1 \cdot 2$
(0, 4, 2, 0, 4)	(1, 1, 1, 4, 4, 2, 4, 2, 1, 4)	20	$x_2 x_3^2 x_4^3 x_5^3 x_6 x_7^3 x_8 x_9^3 x_{10}^3$	1
(0, 4, 1, 3, 2)	(3, 2, 1, 1, 4, 3, 4, 1, 3, 1)	17	$x_1^2 x_4^3 x_5 x_6^2 x_7 x_8^3 x_9^2 x_{10}^3$	$-1 \cdot 2^2$
(0, 4, 1, 2, 3)	(1, 1, 3, 4, 4, 3, 1, 1, 4, 2)	17	$x_2^3 x_3 x_4^2 x_5^2 x_6 x_7^3 x_8^3 x_9^2$	$2^2$
(0, 4, 1, 1, 4)	(1, 1, 1, 2, 4, 4, 4, 4, 3, 1)	18	$x_1^2 x_2 x_3^3 x_5 x_6^2 x_7^3 x_8^3 x_{10}^3$	$-1$
(0, 4, 0, 3, 3)	(4, 4, 3, 3, 3, 4, 1, 1, 1, 1)	18	$x_2 x_3 x_4^2 x_5^2 x_6^2 x_7 x_8^3 x_9^3 x_{10}^3$	$-1$
(0, 3, 3, 3, 1)	(1, 3, 4, 2, 3, 1, 3, 2, 2, 1)	16	$x_1 x_2 x_4^2 x_5^2 x_6^2 x_7^2 x_8^2 x_9^2 x_{10}^2$	1
(0, 3, 3, 2, 2)	(2, 1, 1, 3, 2, 2, 1, 4, 4, 3)	15	$x_1 x_2^2 x_3^2 x_4 x_5^2 x_6^2 x_7^2 x_8 x_9 x_{10}$	$-1$
(0, 3, 2, 2, 3)	(1, 1, 2, 4, 2, 3, 1, 3, 4, 4)	14	$x_2^2 x_3 x_4^2 x_5 x_6 x_7^2 x_8 x_9^2 x_{10}^2$	2

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_2 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(11, 0)	(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)	109	$x_1^9 x_2^{10} x_3^{10} x_4^{10} x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10}$ $x_1^{10} x_2^9 x_3^{10} x_4^{10} x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10}$	$-1 \cdot 2^3 \cdot 5 \cdot 11 \cdot 3019 \cdot 13647452681$ $-1 \cdot 2^3 \cdot 3^2 \cdot 644208651072689$
(10, 1)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0)	65	$x_1 x_2^3 x_3^8 x_4^8 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9$	$-1 \cdot 2^2 \cdot 3^3 \cdot 7$
(9, 2)	(0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1)	57	$x_1^2 x_2^7 x_3^8 x_4^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8$	$2^2 \cdot 3^3 \cdot 7$
(8, 3)	(0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 1)	53	$x_1^7 x_2^7 x_3^7 x_4^6 x_5^2 x_7^6 x_8^6 x_9^7 x_{10}^2 x_{11}^2$	$-1 \cdot 2^6$
(7, 4)	(0, 0, 0, 1, 0, 0, 0, 0, 1, 1, 1)	49	$x_1^5 x_2^6 x_3^6 x_4^3 x_5^5 x_6^6 x_7^6 x_8^6 x_9^3 x_{10} x_{11}^2$	$3^2 \cdot 5$
(6, 5)	(0, 0, 0, 1, 0, 0, 0, 1, 1, 1, 1)	49	$x_1^4 x_2^5 x_3^4 x_4^5 x_5^5 x_6^5 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4$ $x_1^5 x_2^4 x_3^4 x_4^5 x_5^5 x_6^5 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4$	$2 \cdot 3 \cdot 11$ $-1 \cdot 2^4 \cdot 3 \cdot 23$
(5, 6)	(0, 0, 1, 0, 0, 0, 1, 1, 1, 1, 1)	49	$x_1^3 x_2^4 x_3^5 x_4^4 x_5^4 x_6^4 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5$ $x_1^4 x_2^3 x_3^4 x_4^4 x_5^4 x_6^4 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5$	$2^2 \cdot 13 \cdot 337$ $2^3 \cdot 3 \cdot 37$
(4, 7)	(0, 0, 1, 0, 0, 1, 1, 1, 1, 1, 1)	53	$x_1^2 x_2^3 x_3^6 x_4^3 x_5^3 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6$ $x_1^3 x_2^2 x_3^6 x_4^3 x_5^3 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6$	$2^2 \cdot 23 \cdot 349$ $-1 \cdot 2^2 \cdot 7^2 \cdot 29$
(3, 8)	(0, 1, 0, 0, 1, 1, 1, 1, 1, 1, 1)	57	$x_1^2 x_2^2 x_3^2 x_4^2 x_5^7 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7$ $x_1^2 x_2^2 x_3^2 x_4^2 x_5^6 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7$	$2^4 \cdot 5^2 \cdot 7 \cdot 11$ $2^5 \cdot 3 \cdot 467$
(2, 9)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1)	65	$x_2^8 x_3 x_4^8 x_5^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8$ $x_1 x_2^7 x_3 x_4^8 x_5^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8$	$2^2 \cdot 3 \cdot 1709$ $2 \cdot 7 \cdot 13 \cdot 353$
(1, 10)	(1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1)	73	$x_1^8 x_3^8 x_4^8 x_5^9 x_7^8 x_8^5 x_9^9 x_{10}^9 x_{11}^9$ $x_1^8 x_3^8 x_4^8 x_5^8 x_7^8 x_8^5 x_9^9 x_{10}^9 x_{11}^9$	$-1 \cdot 3 \cdot 5 \cdot 11$ $5 \cdot 77863$
(0, 11)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	85	$x_1^3 x_2^4 x_3^8 x_4^{10} x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10}$ $x_1^3 x_2^4 x_3^8 x_4^9 x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10}$	$-1 \cdot 2^2 \cdot 74257$ $-1 \cdot 90997$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_3 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(11, 0, 0)	(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)	109	$x_1^9 x_2^{10} x_3^{10} x_4^{10} x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10}$ $x_1^{10} x_2^9 x_3^{10} x_4^{10} x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10}$	$-1 \cdot 2^3 \cdot 5 \cdot 11 \cdot 3019 \cdot 13647452681$ $-1 \cdot 2^3 \cdot 3^2 \cdot 644208651072689$
(10, 1, 0)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0)	65	$x_1 x_2^3 x_3^7 x_4^9 x_5^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9$ $x_1 x_2^4 x_3^6 x_4^9 x_5^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9$	$2 \cdot 19^2$ $2^2 \cdot 5 \cdot 89$
(9, 2, 0)	(0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0)	46	$x_2^2 x_3^4 x_5^3 x_6^5 x_7^8 x_8^7 x_9^8 x_{10}^8 x_{11}^8$	1
(9, 1, 1)	(0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 2)	56	$x_1^8 x_2^8 x_3^8 x_4^8 x_6^7 x_7^7 x_9^2 x_{10}^2$	$2^2 \cdot 3 \cdot 5$
(8, 3, 0)	(0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 1)	40	$x_1^2 x_2^4 x_4^4 x_5^7 x_7^6 x_8^7 x_9^7 x_{10}^2 x_{11}^2$	2
(8, 2, 1)	(0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 2)	39	$x_1 x_2^3 x_3^6 x_4^7 x_5^7 x_7^6 x_8^7 x_9^7 x_{10}^7$	$-1 \cdot 2^2$
(7, 4, 0)	(0, 0, 1, 0, 0, 1, 0, 0, 0, 1, 1)	38	$x_1 x_2^3 x_3^2 x_4^6 x_5^6 x_6^2 x_8^6 x_9^6 x_{10}^3 x_{11}^3$	$-1 \cdot 2$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_3 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(7, 3, 1)	(0, 0, 0, 1, 0, 0, 1, 0, 0, 2, 1)	35	$x_2^5 x_3^5 x_4^6 x_5^6 x_6^2 x_7^6 x_8^6 x_9 x_{11}^2$	$-1 \cdot 2$
(7, 2, 2)	(0, 0, 1, 0, 0, 1, 0, 0, 0, 2, 2)	33	$x_1 x_2^3 x_3^3 x_4^6 x_5 x_6^5 x_7^6 x_8^6 x_9 x_{10} x_{11}$	1
(6, 5, 0)	(0, 0, 1, 0, 0, 1, 0, 0, 1, 1, 1)	37	$x_2^4 x_3^4 x_4^5 x_5^4 x_6^5 x_7^5 x_8^4 x_9^4 x_{10}^4 x_{11}^4$	$-1 \cdot 2^2$
(6, 4, 1)	(0, 0, 1, 0, 0, 1, 0, 0, 2, 1, 1)	32	$x_1 x_2^3 x_3^4 x_4^5 x_5^3 x_6^5 x_7^5 x_8^3 x_{10}^3 x_{11}^3$	2
(6, 3, 2)	(0, 0, 0, 1, 0, 1, 0, 0, 2, 1, 2)	31	$x_1^5 x_2^5 x_3^4 x_4^2 x_5^5 x_6^2 x_7^4 x_8 x_9 x_{10}^2$	$-1 \cdot 2$
(5, 6, 0)	(0, 1, 0, 0, 1, 0, 0, 1, 1, 1, 1)	37	$x_1 x_2 x_3^3 x_4^4 x_5^4 x_6^4 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5$	$-1 \cdot 2 \cdot 3$
(5, 5, 1)	(0, 0, 1, 0, 1, 0, 0, 1, 1, 1, 2)	33	$x_2^2 x_3^3 x_4^4 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4$	$2^2 \cdot 3$
(5, 4, 2)	(0, 0, 0, 1, 0, 1, 0, 2, 1, 2, 1)	30	$x_2^4 x_3^4 x_4^3 x_5^4 x_6^3 x_7^4 x_8 x_9^3 x_{10} x_{11}^3$	$2 \cdot 5^2$
(5, 3, 3)	(0, 0, 1, 0, 1, 0, 0, 2, 1, 2, 2)	28	$x_1 x_2^3 x_3^2 x_4^4 x_5^2 x_6^4 x_7^4 x_8^2 x_9^2 x_{10}^2 x_{11}^2$	$2^2 \cdot 3$
(4, 7, 0)	(0, 1, 0, 1, 0, 0, 1, 1, 1, 1, 1)	41	$x_2^2 x_3^3 x_4^6 x_5^3 x_6^3 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6$	3
(4, 6, 1)	(0, 0, 1, 0, 1, 0, 1, 1, 1, 2, 1)	35	$x_1 x_2^3 x_3^5 x_4^3 x_5^5 x_6^2 x_7^4 x_8^5 x_9^5 x_{11}^2$	$2^3$
(4, 5, 2)	(0, 0, 1, 0, 1, 0, 2, 1, 2, 1, 1)	30	$x_1^3 x_2^3 x_3^4 x_4^3 x_5^4 x_6^2 x_7 x_8^4 x_{10}^4 x_{11}^2$	-1
(4, 4, 3)	(0, 0, 1, 0, 1, 1, 2, 0, 2, 1, 2)	29	$x_1^3 x_2^2 x_3^3 x_4^3 x_5^3 x_6^3 x_7^2 x_8^3 x_9^2 x_{10}^3 x_{11}^2$	$2 \cdot 3^2$
(3, 8, 0)	(0, 1, 0, 1, 0, 1, 1, 1, 1, 1, 1)	46	$x_2 x_3 x_4^7 x_5^2 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7$	$2 \cdot 7$
(3, 7, 1)	(0, 1, 0, 1, 0, 1, 1, 1, 2, 1, 1)	38	$x_1 x_3 x_4^4 x_5^2 x_6^6 x_7^6 x_8^6 x_{10}^6 x_{11}^6$	$-1 \cdot 2 \cdot 5$
(3, 6, 2)	(0, 0, 1, 1, 0, 1, 1, 1, 2, 1, 2)	34	$x_1^2 x_2^2 x_3^5 x_4^5 x_5^2 x_6^5 x_7^5 x_8^5 x_9 x_{10}^2$	$2^4$
(3, 5, 3)	(0, 0, 2, 1, 1, 0, 1, 2, 1, 2, 1)	31	$\frac{x_1^2 x_2^2 x_3^3 x_4^4 x_5^2 x_6^4 x_7^4 x_8^2 x_9^4 x_{10}^4 x_{11}^4}{x_1^2 x_2^2 x_3^2 x_4^4 x_5^3 x_6^2 x_7^4 x_8^2 x_9^4 x_{10}^4 x_{11}^4}$	$2^2 \cdot 5^2$ $-7$
(3, 4, 4)	(0, 0, 1, 1, 0, 2, 1, 2, 1, 2, 2)	29	$x_1^2 x_2^2 x_3^3 x_4^3 x_5^2 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	$-1 \cdot 2^4$
(2, 9, 0)	(1, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1)	52	$x_1 x_2^3 x_4 x_5^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8$	$3 \cdot 5$
(2, 8, 1)	(0, 1, 1, 0, 1, 1, 1, 1, 1, 1, 2)	45	$x_2 x_3^3 x_4 x_5^5 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7$	$-1 \cdot 2^4$
(2, 7, 2)	(0, 1, 0, 1, 1, 1, 1, 2, 1, 2, 1)	40	$x_1 x_3 x_4^6 x_5^6 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6$	3
(2, 6, 3)	(0, 1, 0, 1, 2, 1, 2, 1, 2, 1, 1)	35	$x_1 x_2^5 x_3 x_4^5 x_5^2 x_6^5 x_7 x_8^5 x_9^2 x_{10}^5 x_{11}^3$	$2 \cdot 3 \cdot 5$
(2, 5, 4)	(0, 1, 1, 0, 1, 2, 2, 1, 2, 1, 2)	34	$x_1 x_2^4 x_3^4 x_4 x_5^4 x_6^3 x_7^3 x_8^4 x_9^3 x_{10}^4 x_{11}^3$	$2^3 \cdot 11 \cdot 53$
	(0, 1, 0, 1, 1, 2, 2, 1, 2, 1, 2)	34	$x_1 x_2^4 x_3 x_4^4 x_5^3 x_6^3 x_7^3 x_8^4 x_9^3 x_{10}^4 x_{11}^3$	$2^2 \cdot 3 \cdot 5 \cdot 17$
(1, 10, 0)	(1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1)	62	$x_1^2 x_2^2 x_4^9 x_5^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9$	$3 \cdot 5$
(1, 9, 1)	(0, 1, 1, 1, 1, 1, 1, 1, 1, 2, 1)	53	$x_2^2 x_3^3 x_4^8 x_5^8 x_7^8 x_8^8 x_9^8 x_{11}^8$	$3 \cdot 5$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_3 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(1, 8, 2)	(2, 1, 1, 1, 1, 1, 0, 1, 2, 1, 1)	45	$x_2^2 x_3 x_4^6 x_5^7 x_6^7 x_8^9 x_9 x_{10}^7 x_{11}^7$	$-1 \cdot 2^2$
(1, 7, 3)	(0, 1, 1, 1, 1, 1, 1, 2, 2, 1, 2)	41	$x_2^3 x_3^3 x_4^5 x_5^6 x_6^6 x_7^2 x_8^2 x_9^2 x_{10}^6 x_{11}^2$	$2^4 \cdot 3$
(1, 6, 4)	(0, 1, 1, 1, 1, 1, 2, 1, 2, 2, 2)	38	$x_2^3 x_3^4 x_4^4 x_5^5 x_6^5 x_7^3 x_8^5 x_9^3 x_{10}^3 x_{11}^3$	$-1 \cdot 3^3$
(1, 5, 5)	(1, 1, 0, 1, 2, 2, 1, 2, 1, 2, 2)	37	$x_1^3 x_2^4 x_3^4 x_4^5 x_5^4 x_6^4 x_7^4 x_8^3 x_9^4 x_{10}^4 x_{11}^4$	$2 \cdot 3^2$
(0, 11, 0)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	73	$x_1 x_2^3 x_3^4 x_4^5 x_5^{10} x_6^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10}$	$3^2 \cdot 5$
(0, 10, 1)	(1, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1)	62	$x_1 x_2^2 x_3^5 x_4^9 x_5^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9$	7
(0, 9, 2)	(1, 1, 2, 2, 1, 1, 1, 1, 1, 1, 1)	56	$x_1^2 x_2^3 x_3 x_4 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8$ $x_1^2 x_2^3 x_3 x_4 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8$	$-1 \cdot 2^2 \cdot 11$ $-1 \cdot 3 \cdot 31$
(0, 8, 3)	(1, 1, 2, 2, 1, 1, 2, 1, 1, 1, 1)	50	$x_2^2 x_3^2 x_4^2 x_5^7 x_6^7 x_7^2 x_8^7 x_9^7 x_{10}^7 x_{11}^7$ $x_2^2 x_3^2 x_4^2 x_5^7 x_6^7 x_7^2 x_8^7 x_9^7 x_{10}^7 x_{11}^7$	$-1 \cdot 61$ $-1 \cdot 113$
(0, 7, 4)	(1, 1, 1, 1, 1, 1, 2, 2, 1, 2, 2)	44	$x_1^3 x_2^3 x_3^5 x_4^6 x_5^6 x_6^3 x_7^3 x_8^6 x_9^3 x_{10}^3$	$-1 \cdot 2^4 \cdot 3$
(0, 6, 5)	(1, 1, 2, 2, 1, 1, 2, 2, 1, 1, 2)	46	$x_1 x_2^5 x_3^4 x_4^4 x_5^5 x_6^5 x_7^4 x_8^4 x_9^5 x_{10}^5 x_{11}^4$ $x_1^2 x_2^4 x_3^4 x_4^5 x_5^5 x_6^4 x_7^4 x_8^5 x_9^5 x_{10}^5 x_{11}^4$	$2 \cdot 3 \cdot 5 \cdot 7 \cdot 13 \cdot 29$ $2^2 \cdot 19 \cdot 1699$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(11, 0, 0, 0)	(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)	109	$x_1^9 x_2^{10} x_3^{10} x_4^{10} x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10}$ $x_1^{10} x_2^9 x_3^{10} x_4^{10} x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10}$	$-1 \cdot 2^3 \cdot 5 \cdot 11 \cdot 3019 \cdot 13647452681$ $-1 \cdot 2^3 \cdot 3^2 \cdot 644208651072689$
(10, 1, 0, 0)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0)	65	$x_1 x_2^3 x_3^7 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9$ $x_1 x_2^4 x_3^6 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9$	$-1 \cdot 2^2 \cdot 3 \cdot 7 \cdot 11$ $-1 \cdot 2^2 \cdot 5^2 \cdot 23$
(10, 0, 1, 0)	(0, 0, 0, 0, 0, 2, 0, 0, 0, 0, 0)	65	$x_1 x_2^3 x_3^7 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9$ $x_1 x_2^4 x_3^6 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9$	$-1 \cdot 2^2 \cdot 3 \cdot 7 \cdot 11$ $-1 \cdot 2^2 \cdot 5^2 \cdot 23$
(9, 2, 0, 0)	(0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0)	46	$x_1 x_2^3 x_3^5 x_4^5 x_5^8 x_6^8 x_7^8 x_{10}^8 x_{11}^8$	$-1 \cdot 2$
(9, 1, 0, 1)	(0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 3)	56	$x_1 x_2^3 x_3^5 x_4^8 x_5^7 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8$	$-1 \cdot 2^2$
(9, 1, 1, 0)	(0, 0, 0, 1, 0, 0, 0, 2, 0, 0, 0)	45	$x_1 x_2^3 x_3^5 x_4^5 x_5^8 x_6^7 x_7^8 x_{10}^8 x_{11}^8$	$-1 \cdot 2$
(9, 0, 2, 0)	(0, 0, 0, 0, 2, 0, 0, 0, 0, 0, 2)	57	$x_1^2 x_2^7 x_3^7 x_4^8 x_5^8 x_6^8 x_7^8 x_{10}^8 x_{11}^8$	$2^2 \cdot 3^3 \cdot 7$
(8, 3, 0, 0)	(0, 0, 1, 0, 0, 1, 0, 0, 1, 0, 0)	35	$x_1 x_2^3 x_3^3 x_4^5 x_5^6 x_6^7 x_7^2 x_{10}^6 x_{11}^7$	-1
(8, 2, 0, 1)	(0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 3)	39	$x_2^2 x_3^4 x_4^4 x_5^4 x_6^7 x_7^8 x_8^6 x_9^7 x_{10}^7$	-1
(8, 2, 1, 0)	(0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 2)	38	$x_1 x_2^3 x_3 x_4^2 x_5^4 x_6^7 x_7^6 x_8^7 x_9^7 x_{10}^7$	-1
(8, 1, 1, 1)	(0, 0, 1, 0, 0, 2, 0, 0, 3, 0, 0)	32	$x_1 x_2^3 x_3^3 x_4^5 x_5^7 x_6^6 x_{10}^6 x_{11}^7$	-1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(8, 1, 2, 0)	(0, 0, 2, 0, 0, 1, 0, 0, 2, 0, 0)	33	$x_1 x_2^3 x_3^4 x_5^7 x_8^9 x_9 x_{10}^6 x_{11}^7$	-1
(8, 0, 3, 0)	(0, 0, 0, 0, 2, 0, 0, 0, 0, 2, 2)	53	$x_1^7 x_2^7 x_3^7 x_4^6 x_5^2 x_7^7 x_8^6 x_9^7 x_{10}^2 x_{11}^2$	$-1 \cdot 2^6$
(7, 4, 0, 0)	(0, 1, 0, 0, 1, 0, 0, 1, 0, 0, 1)	31	$x_1^2 x_3^2 x_4^4 x_5 x_6^6 x_8^2 x_9^5 x_{10}^6 x_{11}^3$	1
(7, 3, 0, 1)	(0, 0, 1, 0, 0, 1, 0, 1, 0, 0, 3)	29	$x_2^2 x_4^2 x_5^4 x_6^2 x_7^6 x_8^2 x_9^5 x_{10}^6$	-1
(7, 2, 0, 2)	(0, 0, 1, 0, 0, 1, 0, 0, 0, 3, 3)	33	$x_1 x_2^3 x_4^3 x_5^6 x_6 x_7^5 x_8^6 x_9^6 x_{10} x_{11}$	1
(7, 3, 1, 0)	(0, 0, 1, 0, 1, 0, 0, 1, 0, 0, 2)	29	$x_2^2 x_3 x_4^3 x_5 x_6^3 x_7^6 x_8^2 x_9^5 x_{10}^6$	-1
(7, 2, 1, 1)	(0, 0, 1, 0, 0, 2, 0, 3, 0, 0, 1)	27	$x_2^2 x_4^2 x_5^5 x_7^6 x_9^5 x_{10}^6 x_{11}$	-1
(7, 2, 2, 0)	(0, 0, 1, 0, 2, 0, 0, 2, 1, 0, 0)	28	$x_2^2 x_4^2 x_5^6 x_7^6 x_8 x_9 x_{10}^5 x_{11}^6$	$-1 \cdot 2$
(7, 1, 2, 1)	(0, 1, 0, 0, 2, 0, 0, 3, 0, 0, 2)	26	$x_1 x_3 x_4^3 x_6^3 x_7^6 x_9^5 x_{10}^6 x_{11}$	1
(7, 1, 3, 0)	(0, 0, 2, 0, 0, 1, 0, 2, 0, 0, 2)	29	$x_2^2 x_4^2 x_5^5 x_7^6 x_8 x_9^5 x_{10}^6 x_{11}^2$	-1
(7, 0, 4, 0)	(0, 0, 0, 2, 0, 0, 0, 0, 2, 2, 2)	49	$x_1^2 x_2^5 x_3^6 x_4^3 x_5^6 x_6^6 x_7^6 x_8^6 x_9^3 x_{10}^3 x_{11}^3$	$-1 \cdot 2^9 \cdot 3^2$
(6, 5, 0, 0)	(0, 1, 0, 1, 0, 0, 1, 0, 0, 1, 1)	31	$x_2 x_3^2 x_4 x_5^2 x_6^5 x_7^3 x_8^4 x_9^5 x_{10}^4 x_{11}^4$	-1
(6, 4, 0, 1)	(0, 0, 1, 0, 0, 1, 0, 1, 0, 3, 1)	27	$x_2^2 x_4^2 x_5^5 x_6^2 x_7^5 x_8^3 x_9^5 x_{11}^3$	1
(6, 3, 0, 2)	(0, 0, 1, 0, 1, 0, 1, 0, 0, 3, 3)	25	$x_2^2 x_3 x_4^3 x_5 x_6^5 x_7^2 x_8^4 x_9^5 x_{10} x_{11}$	1
(6, 4, 1, 0)	(0, 0, 1, 0, 1, 0, 1, 0, 0, 2, 1)	27	$x_2^2 x_4^2 x_5^3 x_6^5 x_7^3 x_8^4 x_9^5 x_{11}^3$	-1
(6, 3, 1, 1)	(0, 1, 0, 0, 1, 0, 1, 0, 0, 3, 2)	23	$x_1 x_3 x_4^3 x_5^2 x_6^5 x_7^2 x_8^4 x_9^5$	1
(6, 2, 1, 2)	(0, 0, 1, 0, 0, 2, 0, 3, 0, 1, 3)	23	$x_2^2 x_4^3 x_5^5 x_7^5 x_8 x_9^5 x_{10} x_{11}$	2
(6, 3, 2, 0)	(0, 0, 1, 0, 2, 0, 2, 1, 0, 0, 1)	25	$x_2^2 x_4^4 x_5 x_6^5 x_7 x_8 x_9^4 x_{10}^5 x_{11}^2$	-1
(6, 2, 2, 1)	(0, 0, 1, 0, 2, 0, 3, 0, 0, 1, 2)	23	$x_2^2 x_3 x_4^4 x_6^5 x_8^4 x_9^5 x_{10} x_{11}$	-1
(6, 2, 3, 0)	(0, 1, 0, 2, 0, 0, 2, 1, 0, 0, 2)	24	$x_1 x_3 x_5^3 x_6^5 x_7^2 x_8 x_9^4 x_{10}^5 x_{11}^2$	$2^2$
(6, 1, 3, 1)	(0, 0, 1, 0, 2, 0, 2, 2, 3, 0, 0)	24	$x_2^2 x_4^2 x_5^2 x_6^5 x_7^2 x_8^2 x_{10}^4 x_{11}^5$	-1
(6, 1, 4, 0)	(0, 0, 2, 0, 0, 1, 0, 2, 0, 2, 2)	27	$x_2^2 x_4^2 x_5^5 x_7^4 x_8^3 x_9^5 x_{10}^3 x_{11}^3$	-1
(6, 0, 5, 0)	(0, 0, 0, 2, 0, 0, 0, 2, 2, 2, 2)	49	$x_1^4 x_2^5 x_3^5 x_4^4 x_5^5 x_6^5 x_7^5 x_8^4 x_9^4 x_{10}^4 x_{11}^4$ $x_1^5 x_2^4 x_3^5 x_4^4 x_5^5 x_6^5 x_7^5 x_8^4 x_9^4 x_{10}^4 x_{11}^4$	$2 \cdot 3 \cdot 11$ $-1 \cdot 2^4 \cdot 3 \cdot 23$
(5, 6, 0, 0)	(0, 1, 0, 1, 0, 1, 0, 0, 1, 1, 1)	32	$x_3 x_4^2 x_5^4 x_6^3 x_7^3 x_8^4 x_9^5 x_{10}^5 x_{11}^5$	$-1 \cdot 2$
(5, 5, 0, 1)	(0, 1, 0, 0, 1, 0, 1, 0, 3, 1, 1)	26	$x_1 x_3 x_4^4 x_5 x_6^3 x_7^4 x_8^4 x_{10}^4 x_{11}^4$	-1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(5, 4, 0, 2)	(0, 0, 1, 0, 0, 1, 1, 0, 3, 1, 3)	24	$x_2^2 x_4^3 x_5^4 x_6^3 x_7^3 x_8^4 x_9 x_{10}^3 x_{11}$	3
(5, 3, 0, 3)	(0, 1, 0, 1, 0, 1, 0, 0, 3, 3, 3)	22	$x_1 x_3 x_4 x_5^4 x_6^2 x_7^3 x_8^4 x_9^2 x_{10}^2 x_{11}^2$	-1
(5, 5, 1, 0)	(0, 0, 1, 0, 1, 0, 1, 0, 2, 1, 1)	27	$x_2^2 x_4^2 x_5^3 x_6^4 x_7^4 x_8^4 x_{10}^4 x_{11}^4$	$-1 \cdot 2^2$
(5, 4, 1, 1)	(0, 0, 1, 0, 1, 0, 1, 0, 3, 1, 2)	23	$x_2^2 x_3 x_4^4 x_5^2 x_6^4 x_7^3 x_8^4 x_{10}^3$	1
(5, 3, 1, 2)	(0, 0, 1, 0, 0, 2, 3, 0, 1, 3, 1)	21	$x_2^2 x_3^2 x_4^3 x_5^4 x_7 x_8^4 x_9^2 x_{10} x_{11}^2$	3
(5, 4, 2, 0)	(0, 1, 0, 1, 0, 1, 0, 0, 2, 1, 2)	23	$x_1 x_3 x_4^2 x_5^4 x_6^3 x_7^3 x_8^4 x_9 x_{10}^3 x_{11}$	1
(5, 3, 2, 1)	(0, 0, 1, 0, 2, 0, 2, 1, 0, 1, 3)	21	$x_2^2 x_3 x_4^4 x_5 x_6^4 x_7 x_8^2 x_9^4 x_{10}^2$	$-1 \cdot 3$
(5, 2, 2, 2)	(0, 1, 0, 0, 2, 0, 3, 0, 1, 3, 2)	19	$x_1 x_3^2 x_4^4 x_6^4 x_7 x_8^4 x_9 x_{10} x_{11}$	$-1 \cdot 2$
(5, 3, 3, 0)	(0, 0, 1, 1, 0, 0, 1, 0, 2, 2, 2)	23	$x_2^2 x_3 x_4 x_5^3 x_6^4 x_7^2 x_8^4 x_9^2 x_{10}^2 x_{11}^2$	-1
(5, 2, 3, 1)	(0, 0, 1, 0, 2, 2, 2, 3, 0, 0, 1)	21	$x_2^2 x_3 x_4^4 x_5^2 x_6^2 x_7^2 x_9^3 x_{10}^4 x_{11}$	3
(5, 2, 4, 0)	(0, 0, 1, 2, 0, 2, 2, 2, 1, 0, 0)	24	$x_2^4 x_5^3 x_6^3 x_7^2 x_8^3 x_9 x_{10}^3 x_{11}^4$	$-1 \cdot 2$
(5, 1, 4, 1)	(0, 1, 0, 2, 0, 2, 2, 3, 0, 0, 2)	22	$x_1 x_3 x_5^4 x_6^3 x_7^3 x_9 x_{10}^4 x_{11}^3$	3
(5, 1, 5, 0)	(0, 0, 2, 0, 0, 1, 2, 0, 2, 2, 2)	27	$x_2^2 x_3 x_4^3 x_5^4 x_7 x_8^4 x_9^4 x_{10}^4 x_{11}^4$	$-1 \cdot 3$
(5, 0, 6, 0)	(0, 0, 2, 0, 0, 0, 2, 2, 2, 2, 2)	49	$x_1^3 x_2^4 x_3^5 x_4^4 x_5^4 x_6^5 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5$ $x_1^4 x_2^3 x_3^5 x_4^4 x_5^4 x_6^4 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5$	$2^2 \cdot 13 \cdot 337$ $2^3 \cdot 3 \cdot 37$
(4, 7, 0, 0)	(0, 1, 0, 1, 0, 1, 0, 1, 1, 1, 1)	35	$x_3 x_4 x_5^2 x_6^4 x_7^3 x_8^6 x_9^6 x_{10}^6 x_{11}^6$	2
(4, 6, 0, 1)	(0, 1, 0, 1, 0, 1, 0, 3, 1, 1, 1)	29	$x_2 x_3^2 x_4 x_5^3 x_6^4 x_7^3 x_9^5 x_{10}^5 x_{11}^5$	-1
(4, 5, 0, 2)	(0, 0, 1, 0, 0, 1, 1, 3, 1, 3, 1)	25	$x_2^3 x_4^2 x_5^3 x_6^3 x_7^4 x_8 x_9^4 x_{10} x_{11}^4$	$-1 \cdot 2$
(4, 4, 0, 3)	(0, 0, 1, 0, 1, 1, 0, 3, 1, 3, 3)	23	$x_2^2 x_3 x_4^3 x_5^2 x_6^3 x_7^3 x_8^2 x_9^3 x_{10}^2 x_{11}^2$	3
(4, 6, 1, 0)	(0, 1, 0, 1, 0, 1, 0, 2, 1, 1, 1)	28	$x_1 x_3 x_4 x_5^3 x_6^4 x_7^3 x_9^5 x_{10}^5 x_{11}^5$	2
(4, 5, 1, 1)	(0, 0, 1, 0, 1, 1, 0, 2, 1, 1, 3)	24	$x_2^2 x_4^3 x_5^4 x_6^4 x_7^3 x_9^4 x_{10}^4$	$-1 \cdot 2^2$
(4, 4, 1, 2)	(0, 1, 0, 0, 1, 1, 0, 3, 1, 3, 2)	20	$x_1 x_3^2 x_4^3 x_5^3 x_6^3 x_7^3 x_8 x_9^3 x_{10}$	$-1 \cdot 3$
(4, 3, 1, 3)	(0, 0, 1, 0, 0, 2, 3, 1, 3, 1, 3)	20	$x_2^3 x_3^2 x_4^2 x_5^3 x_7^2 x_8^2 x_9^2 x_{10}^2 x_{11}^2$	$-1 \cdot 2 \cdot 3$
(4, 5, 2, 0)	(0, 0, 1, 1, 0, 1, 0, 2, 1, 1, 2)	25	$x_2^2 x_3 x_4^2 x_5^3 x_6^4 x_7^3 x_8 x_9^4 x_{10}^4 x_{11}$	$2^2$
(4, 4, 2, 1)	(0, 0, 1, 0, 2, 3, 0, 1, 2, 1, 1)	21	$x_1^3 x_2^2 x_3^3 x_4^3 x_5 x_7^3 x_8^3 x_{10}^3$	2
(4, 3, 2, 2)	(0, 0, 1, 0, 2, 3, 0, 1, 3, 1, 2)	19	$x_1 x_2^3 x_3^2 x_4^3 x_6 x_7^3 x_8^2 x_9 x_{10}^2 x_{11}$	$2^2 \cdot 3$



$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(4, 4, 3, 0)	(0, 0, 1, 1, 0, 1, 0, 2, 2, 2, 1)	23	$x_2^2 x_3 x_4^2 x_5^3 x_6^3 x_7^3 x_8^2 x_9^2 x_{10}^2 x_{11}^3$	2
(4, 3, 3, 1)	(0, 1, 0, 1, 0, 1, 0, 2, 2, 3, 2)	19	$x_1^3 x_2^2 x_3^2 x_4^2 x_5^3 x_6^2 x_7^2 x_8^2 x_9 x_{11}$	1
(4, 2, 3, 2)	(0, 0, 1, 0, 2, 2, 2, 3, 0, 1, 3)	19	$x_2^3 x_3 x_4^3 x_5^2 x_6^2 x_7^2 x_8 x_9^3 x_{10} x_{11}$	$-1 \cdot 2$
(4, 3, 4, 0)	(0, 0, 1, 2, 2, 1, 0, 0, 1, 2, 2)	23	$x_2^3 x_3 x_4^2 x_5^3 x_6 x_7^2 x_8^3 x_9^2 x_{10}^3 x_{11}^3$	2
(4, 2, 4, 1)	(0, 0, 1, 2, 2, 2, 3, 0, 0, 1, 2)	21	$x_1 x_2^3 x_3 x_4^2 x_5^2 x_6^3 x_8^2 x_9^3 x_{10} x_{11}^3$	$-1 \cdot 2^3$
(4, 2, 5, 0)	(0, 1, 2, 0, 2, 2, 2, 1, 0, 0, 2)	24	$x_1 x_4^2 x_5^3 x_6^4 x_7^4 x_8 x_9^2 x_{10}^3 x_{11}^4$	1
(4, 1, 5, 1)	(0, 0, 1, 2, 2, 2, 2, 2, 3, 0, 0)	24	$x_2^3 x_4 x_5^3 x_6^4 x_7^4 x_8^4 x_{10}^2 x_{11}^3$	-1
(4, 1, 6, 0)	(0, 0, 2, 0, 0, 1, 2, 2, 2, 2, 2)	29	$x_2^3 x_4^2 x_5^3 x_7^2 x_8^4 x_9^5 x_{10}^5 x_{11}^5$	-1
(4, 0, 7, 0)	(0, 0, 2, 0, 0, 2, 2, 2, 2, 2, 2)	53	$x_1^2 x_2^3 x_3^6 x_4^3 x_5^3 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6$ $x_1^3 x_2^2 x_3^6 x_4^3 x_5^3 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6$	$2^2 \cdot 23 \cdot 349$ $-1 \cdot 2^2 \cdot 7^2 \cdot 29$
(3, 8, 0, 0)	(1, 0, 1, 0, 1, 0, 1, 1, 1, 1, 1)	39	$x_1 x_2^3 x_4 x_5^5 x_6^2 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7$	2
(3, 7, 0, 1)	(0, 1, 0, 1, 1, 0, 1, 1, 1, 1, 3)	33	$x_3 x_4^2 x_5^4 x_6^2 x_7^6 x_8^6 x_9^6 x_{10}^6$	2
(3, 6, 0, 2)	(0, 1, 0, 0, 1, 1, 3, 1, 3, 1, 1)	27	$x_1^2 x_3 x_4^2 x_5^2 x_6^3 x_7 x_8^5 x_9 x_{10}^5 x_{11}^5$	2
(3, 5, 0, 3)	(0, 1, 0, 0, 1, 1, 1, 3, 3, 1, 3)	25	$x_1 x_3 x_4^2 x_5^3 x_6^4 x_7^4 x_8^2 x_9^2 x_{10}^4 x_{11}^2$	-1
(3, 4, 0, 4)	(0, 1, 0, 1, 1, 0, 3, 1, 3, 3, 3)	23	$x_1 x_3 x_4 x_5^3 x_6^2 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	2
(3, 7, 1, 0)	(0, 1, 1, 0, 1, 0, 1, 1, 1, 1, 2)	33	$x_2 x_3 x_4 x_5^4 x_6^2 x_7^6 x_8^6 x_9^6 x_{10}^6$	2
(3, 6, 1, 1)	(0, 0, 1, 0, 1, 1, 2, 1, 1, 3, 1)	27	$x_2^2 x_4^2 x_5^3 x_6^5 x_8^5 x_9^5 x_{11}^5$	2
(3, 5, 1, 2)	(0, 0, 1, 0, 1, 1, 3, 1, 3, 1, 2)	23	$x_2^2 x_3^2 x_4^2 x_5^3 x_6^4 x_7 x_8^4 x_9 x_{10}^4$	2
(3, 4, 1, 3)	(0, 0, 1, 0, 1, 1, 3, 1, 3, 3, 2)	21	$x_2^2 x_3^2 x_4^2 x_5^3 x_6^3 x_7^2 x_8^3 x_9^2 x_{10}^2$	2
(3, 6, 2, 0)	(0, 0, 1, 1, 1, 0, 2, 1, 1, 2, 1)	28	$x_2^2 x_4^3 x_5^4 x_6^2 x_7 x_8^5 x_9^5 x_{10} x_{11}^5$	2
(3, 5, 2, 1)	(0, 1, 0, 1, 1, 0, 2, 1, 1, 3, 2)	22	$x_1 x_3 x_4^4 x_5^4 x_6^2 x_7 x_8^4 x_9^4 x_{11}$	$-1 \cdot 2^2$
(3, 4, 2, 2)	(0, 0, 1, 0, 2, 3, 1, 2, 1, 1, 3)	20	$x_2^2 x_3^3 x_4^2 x_5 x_6 x_7^3 x_8 x_9^3 x_{10}^3 x_{11}$	$-1 \cdot 2^2 \cdot 3$
(3, 3, 2, 3)	(0, 1, 0, 0, 2, 3, 1, 3, 1, 3, 2)	18	$x_1^2 x_2^2 x_3 x_4^2 x_6^2 x_7^2 x_8^2 x_9^2 x_{10} x_{11}$	$2 \cdot 3$
(3, 5, 3, 0)	(0, 0, 1, 1, 0, 1, 2, 1, 1, 2, 2)	25	$x_2^2 x_4^3 x_5^2 x_6^4 x_7^2 x_8^4 x_9^4 x_{10}^2 x_{11}^2$	$2^2$
(3, 4, 3, 1)	(0, 0, 1, 1, 0, 1, 2, 2, 3, 1, 2)	21	$x_2^2 x_3^2 x_4^3 x_5^2 x_6^3 x_7^2 x_8^2 x_{10}^3 x_{11}^2$	$-1 \cdot 3$
(3, 3, 3, 2)	(0, 0, 1, 1, 0, 3, 2, 3, 1, 2, 2)	19	$x_1 x_2^2 x_3^2 x_4^2 x_5^2 x_6 x_7^2 x_8 x_9^2 x_{10}^2 x_{11}^2$	2

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(3, 4, 4, 0)	(0, 1, 1, 0, 1, 0, 2, 2, 2, 1, 2)	23	$x_1 x_3 x_4 x_5^3 x_6^2 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	2
(3, 3, 4, 1)	(0, 0, 1, 2, 2, 1, 0, 1, 2, 2, 3)	21	$x_2^2 x_3^2 x_4^2 x_5^3 x_6^2 x_7^2 x_8^2 x_9^3 x_{10}^3$	$2 \cdot 3$
(3, 2, 4, 2)	(0, 1, 0, 2, 2, 2, 3, 0, 1, 3, 2)	19	$x_1^2 x_2 x_3^2 x_5^3 x_6^3 x_7 x_8^2 x_9 x_{10} x_{11}^3$	$-1 \cdot 2$
(3, 3, 5, 0)	(0, 0, 2, 0, 1, 2, 1, 1, 2, 2, 2)	25	$x_2^2 x_4^2 x_5 x_6^4 x_7^2 x_8^2 x_9^4 x_{10}^4 x_{11}^4$	$-1 \cdot 2^2$
(3, 2, 5, 1)	(0, 0, 2, 0, 1, 2, 1, 3, 2, 2, 2)	23	$x_2^2 x_3^2 x_4^2 x_5 x_6^3 x_7 x_8^4 x_9^4 x_{10}^4 x_{11}^4$	1
(3, 2, 6, 0)	(0, 0, 2, 0, 1, 2, 2, 2, 2, 2, 1)	28	$x_2^2 x_3^2 x_4^2 x_6^2 x_7^4 x_8^5 x_9^5 x_{10}^5 x_{11}$	1
(3, 1, 6, 1)	(0, 1, 2, 2, 2, 2, 2, 3, 0, 0, 2)	26	$x_1^2 x_4^2 x_5^4 x_6^5 x_7^5 x_9 x_{10}^2 x_{11}^5$	1
(3, 1, 7, 0)	(0, 2, 0, 0, 2, 1, 2, 2, 2, 2, 2)	33	$x_1 x_3 x_4^2 x_5^3 x_7^2 x_8^5 x_9^6 x_{10}^6 x_{11}^6$	-1
(3, 0, 8, 0)	(0, 2, 0, 0, 2, 2, 2, 2, 2, 2, 2)	57	$x_1^2 x_2^2 x_3^2 x_4^2 x_5^7 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7$ $x_1^2 x_2^3 x_3^2 x_4^2 x_5^6 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7$	$2^4 \cdot 5^2 \cdot 7 \cdot 11$ $2^5 \cdot 3 \cdot 467$
(2, 9, 0, 0)	(1, 1, 0, 1, 0, 1, 1, 1, 1, 1, 1)	47	$x_1^2 x_2^2 x_4^3 x_5 x_6^7 x_8^8 x_9^8 x_{10}^8 x_{11}^8$	2
(2, 8, 0, 1)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 3, 1)	39	$x_3 x_4 x_5^3 x_6^6 x_7^7 x_8^7 x_9^7 x_{11}^7$	$-1 \cdot 3$
(2, 7, 0, 2)	(0, 1, 0, 1, 1, 3, 1, 3, 1, 1, 1)	33	$x_2^2 x_3 x_4 x_5^3 x_6 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6$	-1
(2, 6, 0, 3)	(0, 1, 0, 1, 1, 1, 3, 3, 3, 1, 1)	29	$x_3 x_4^2 x_5^5 x_6^5 x_7^2 x_8^2 x_9^5 x_{10}^5 x_{11}^5$	$-1 \cdot 2^3$
(2, 5, 0, 4)	(0, 1, 0, 1, 1, 1, 3, 3, 1, 3, 3)	27	$x_2^2 x_3 x_4^2 x_5^3 x_6^4 x_7^2 x_8^3 x_9^4 x_{10}^3 x_{11}^3$	$-1 \cdot 2$
(2, 8, 1, 0)	(0, 1, 1, 1, 0, 1, 1, 1, 1, 2, 1)	39	$x_3^2 x_4^2 x_5 x_6^6 x_7^7 x_8^7 x_9^7 x_{11}^7$	$-1 \cdot 3$
(2, 7, 1, 1)	(0, 1, 0, 1, 1, 2, 1, 1, 3, 1, 1)	31	$x_1 x_3 x_4 x_5^5 x_7^5 x_8^6 x_{10}^6 x_{11}^6$	1
(2, 6, 1, 2)	(0, 1, 0, 1, 1, 1, 1, 2, 3, 1, 3)	27	$x_3 x_4^4 x_5^5 x_6^5 x_7 x_9 x_{10}^5 x_{11}$	$-1 \cdot 3$
(2, 5, 1, 3)	(0, 1, 0, 1, 1, 3, 1, 3, 1, 2, 3)	23	$x_1 x_3 x_4^3 x_5^4 x_6^2 x_7^4 x_8^2 x_9^4 x_{11}^2$	$-1 \cdot 2$
(2, 4, 1, 4)	(0, 1, 0, 1, 1, 2, 3, 3, 3, 1, 3)	23	$x_2 x_3 x_4^3 x_5^3 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	$2^2$
(2, 7, 2, 0)	(0, 1, 0, 1, 1, 1, 2, 1, 2, 1, 1)	33	$x_3 x_4 x_5^5 x_6^6 x_7 x_8^6 x_9 x_{10}^6 x_{11}^6$	$-1 \cdot 2^3$
(2, 6, 2, 1)	(0, 1, 0, 1, 1, 1, 2, 1, 3, 1, 2)	27	$x_2^2 x_3 x_4^2 x_5^5 x_6^5 x_7 x_8^5 x_{10}^5 x_{11}$	-1
(2, 5, 2, 2)	(0, 1, 0, 1, 1, 1, 2, 1, 3, 3, 2)	23	$x_2^2 x_3 x_4^4 x_5^4 x_6^4 x_7 x_8^4 x_9 x_{10} x_{11}$	$-1 \cdot 2$
(2, 4, 2, 3)	(0, 1, 0, 1, 1, 3, 1, 3, 2, 3, 2)	21	$x_2^3 x_3 x_4^3 x_5^3 x_6^2 x_7^3 x_8^2 x_9 x_{10}^2 x_{11}$	$-1 \cdot 2 \cdot 3$
(2, 6, 3, 0)	(0, 1, 1, 0, 1, 2, 1, 1, 2, 2, 1)	28	$x_1 x_3 x_4 x_5^4 x_6^2 x_7^5 x_8^5 x_9^2 x_{10}^2 x_{11}^5$	$-1 \cdot 3^2$
(2, 5, 3, 1)	(0, 1, 0, 1, 1, 1, 2, 1, 2, 2, 3)	24	$x_1 x_2^4 x_3 x_4^4 x_5^3 x_6^4 x_7^2 x_8^2 x_9^2$	1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(2, 4, 3, 2)	(0, 1, 0, 1, 1, 2, 2, 3, 1, 3, 2)	20	$x_1 x_2 x_3 x_4^3 x_5^3 x_6^2 x_7^2 x_8 x_9^3 x_{10} x_{11}^2$	$-1 \cdot 2$
(2, 3, 3, 3)	(0, 1, 0, 1, 1, 3, 2, 3, 2, 2, 3)	20	$x_1 x_2^2 x_3 x_4^2 x_5^2 x_6^2 x_7^2 x_8^2 x_9^2 x_{10}^2 x_{11}^2$	$2^2$
(2, 5, 4, 0)	(0, 1, 1, 0, 1, 1, 2, 1, 2, 2, 2)	27	$x_2 x_3 x_4 x_5^4 x_6^4 x_7^3 x_8^4 x_9^3 x_{10}^3 x_{11}^3$	$-1 \cdot 2$
(2, 4, 4, 1)	(0, 1, 0, 1, 1, 2, 2, 3, 2, 2, 1)	23	$x_1 x_3 x_4^3 x_5^3 x_6^3 x_7^3 x_8^3 x_{10}^3 x_{11}^3$	$-1 \cdot 2^4$
(2, 3, 4, 2)	(0, 1, 0, 2, 3, 1, 3, 2, 2, 1, 2)	21	$x_1 x_2^2 x_3 x_4^2 x_5 x_6^2 x_7 x_8^3 x_9^3 x_{10}^2 x_{11}^3$	$-1 \cdot 2^2$
(2, 4, 5, 0)	(0, 1, 1, 0, 1, 2, 2, 2, 2, 1, 2)	27	$x_3^3 x_4 x_5^2 x_6^2 x_7^4 x_8^4 x_9^4 x_{10}^3 x_{11}^4$	$-1 \cdot 2$
(2, 3, 5, 1)	(0, 1, 1, 0, 1, 2, 2, 2, 2, 3, 2)	23	$x_1 x_3 x_4 x_5^2 x_6^2 x_7^4 x_8^4 x_9^4 x_{11}^4$	$2$
(2, 2, 5, 2)	(0, 1, 0, 2, 2, 2, 3, 2, 2, 1, 3)	23	$x_3 x_4^3 x_5^4 x_6^4 x_7 x_8^4 x_9^4 x_{10} x_{11}$	$-1 \cdot 3$
(2, 3, 6, 0)	(0, 1, 1, 0, 2, 2, 1, 2, 2, 2, 2)	29	$x_3 x_4 x_5^2 x_6^4 x_7^2 x_8^4 x_9^5 x_{10}^5 x_{11}^5$	$1$
(2, 2, 6, 1)	(0, 1, 2, 2, 2, 3, 0, 2, 2, 1, 2)	27	$x_2 x_4^4 x_5^5 x_7 x_8^5 x_9^5 x_{10} x_{11}^5$	$2^2$
(2, 2, 7, 0)	(0, 2, 0, 1, 2, 2, 2, 2, 2, 1, 2)	32	$x_1 x_3 x_5 x_6^4 x_7^6 x_8^6 x_9^6 x_{10} x_{11}^6$	$2$
(2, 1, 7, 1)	(0, 1, 2, 2, 2, 2, 2, 3, 0, 2, 2)	32	$x_4^2 x_5^5 x_6^6 x_7^6 x_9 x_{10}^6 x_{11}^6$	$3$
(2, 1, 8, 0)	(0, 2, 0, 2, 2, 1, 2, 2, 2, 2, 2)	39	$x_3 x_4^3 x_5^4 x_7^4 x_8^6 x_9^7 x_{10}^7 x_{11}^7$	$1$
(2, 0, 9, 0)	(0, 2, 0, 2, 2, 2, 2, 2, 2, 2, 2)	65	$x_2^2 x_3 x_4^6 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8$ $x_3^3 x_4^5 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8$	$-1 \cdot 2^2 \cdot 8069$ $-1 \cdot 2^2 \cdot 11 \cdot 2089$
(1, 10, 0, 0)	(1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1)	56	$x_1 x_2^3 x_3^3 x_5^5 x_6^8 x_8^9 x_9^9 x_{10}^9 x_{11}^9$	$-1 \cdot 2$
(1, 9, 0, 1)	(1, 0, 1, 1, 1, 1, 1, 1, 3, 1, 1)	46	$x_1 x_3^2 x_4^4 x_5^7 x_6^8 x_8^8 x_{10}^8 x_{11}^8$	$-1 \cdot 3$
(1, 8, 0, 2)	(1, 0, 1, 1, 1, 3, 1, 1, 1, 1, 3)	40	$x_3^2 x_4^2 x_5^6 x_6 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}$	$-1 \cdot 2$
(1, 7, 0, 3)	(1, 0, 1, 1, 1, 3, 3, 3, 1, 1, 1)	34	$x_3 x_4^3 x_5^6 x_6^2 x_7^2 x_8^2 x_9^6 x_{10}^6 x_{11}^6$	$2 \cdot 3$
(1, 6, 0, 4)	(1, 0, 1, 1, 1, 1, 3, 3, 3, 1, 3)	32	$x_3^2 x_4^3 x_5^5 x_6^5 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	$-1 \cdot 2$
(1, 5, 0, 5)	(1, 0, 1, 1, 1, 1, 3, 3, 1, 3, 3)	30	$x_3 x_4^3 x_5^4 x_6^2 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4$	$-1 \cdot 2$
(1, 9, 1, 0)	(0, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1)	47	$x_2 x_3^2 x_4^4 x_5^8 x_6^8 x_8^8 x_{10}^8 x_{11}^8$	$2^2$
(1, 8, 1, 1)	(0, 1, 1, 1, 1, 1, 1, 1, 3, 1, 2)	39	$x_2 x_3 x_4^3 x_5^6 x_6^7 x_7^7 x_8^7 x_{10}^7$	$-1 \cdot 3$
(1, 7, 1, 2)	(0, 1, 1, 1, 1, 3, 2, 1, 3, 1, 1)	33	$x_3^2 x_4^5 x_5^6 x_6^6 x_8 x_9 x_{10}^6 x_{11}^6$	$-1 \cdot 2^2 \cdot 3$
(1, 6, 1, 3)	(0, 1, 1, 1, 1, 1, 2, 3, 1, 3, 3)	29	$x_2 x_3^2 x_4^5 x_5^5 x_6^5 x_8^2 x_9^5 x_{10}^2 x_{11}^2$	$-1 \cdot 5$
(1, 5, 1, 4)	(0, 1, 1, 1, 1, 3, 3, 3, 1, 3, 2)	27	$x_2 x_3^2 x_4^4 x_5^4 x_6^3 x_7^3 x_8^4 x_9^3 x_{10}^3$	$-1 \cdot 2$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(1, 8, 2, 0)	(1, 0, 1, 1, 1, 2, 1, 2, 1, 1, 1)	39	$x_3x_4^2x_5^6x_6x_7^7x_8x_9^7x_{10}^7x_{11}^7$	-1
(1, 7, 2, 1)	(0, 1, 1, 1, 1, 1, 2, 3, 1, 2, 1)	33	$x_3^2x_4^5x_5^6x_6^6x_7x_9^6x_{10}x_{11}^6$	$2^3$
(1, 6, 2, 2)	(1, 0, 1, 1, 1, 1, 2, 3, 1, 3, 2)	27	$x_3^3x_4^5x_5^5x_6^5x_7x_8x_9^5x_{10}x_{11}$	$-1 \cdot 2 \cdot 3$
(1, 5, 2, 3)	(0, 1, 1, 1, 1, 1, 2, 3, 3, 2, 3)	25	$x_2x_3^4x_4^4x_5^4x_6^4x_7x_8^2x_9^2x_{10}x_{11}^2$	2
(1, 4, 2, 4)	(1, 0, 1, 1, 2, 3, 3, 3, 1, 3, 2)	23	$x_3^3x_4^3x_5x_6^3x_7^3x_8^3x_9^3x_{10}^3x_{11}$	$2^2 \cdot 3$
(1, 7, 3, 0)	(0, 1, 1, 1, 1, 2, 1, 2, 1, 1, 2)	35	$x_2x_3x_4^3x_5^6x_6^2x_7^6x_8^2x_9^6x_{10}^6x_{11}^2$	$-1 \cdot 2$
(1, 6, 3, 1)	(0, 1, 1, 1, 1, 2, 1, 2, 1, 3, 2)	29	$x_3^3x_4^5x_5^5x_6^2x_7^5x_8^2x_9^5x_{11}^2$	$-1 \cdot 2 \cdot 3$
(1, 5, 3, 2)	(0, 1, 1, 1, 1, 2, 1, 2, 2, 3, 3)	25	$x_2x_3^4x_4^4x_5^4x_6^2x_7^4x_8^2x_9^2x_{10}x_{11}$	$-1 \cdot 2$
(1, 4, 3, 3)	(0, 1, 1, 1, 2, 1, 2, 3, 3, 3, 2)	23	$x_2^2x_3^3x_4^3x_5^2x_6^3x_7^2x_8^2x_9^2x_{10}^2x_{11}^2$	$2^2$
(1, 6, 4, 0)	(0, 1, 1, 1, 1, 2, 1, 2, 2, 2, 1)	32	$x_2^2x_3^3x_4^5x_6^3x_7^5x_8^3x_9^3x_{10}^3x_{11}^5$	$-1 \cdot 2^3$
(1, 5, 4, 1)	(1, 0, 1, 1, 1, 2, 1, 2, 2, 3, 2)	26	$x_2^2x_3^4x_4^4x_5^3x_6^4x_7^4x_8^3x_9^3x_{11}^3$	$2 \cdot 3$
(1, 4, 4, 2)	(0, 1, 1, 1, 2, 1, 2, 3, 2, 2, 3)	24	$x_2x_3^3x_4^3x_5^3x_6^3x_7^3x_8^3x_9^3x_{10}^3x_{11}$	$2^3$
(1, 3, 4, 3)	(1, 0, 1, 1, 2, 2, 3, 2, 3, 3, 2)	22	$x_2^2x_3^2x_4^3x_5^3x_6^3x_7^2x_8^3x_9^2x_{10}^3x_{11}^3$	$-1 \cdot 2 \cdot 3^2$
(1, 5, 5, 0)	(0, 1, 1, 1, 2, 1, 2, 2, 1, 2, 2)	31	$x_3x_4^3x_5^3x_6^4x_7^4x_8^4x_9^4x_{10}^4x_{11}^4$	3
(1, 4, 5, 1)	(0, 1, 1, 1, 2, 2, 3, 2, 2, 1, 2)	27	$x_2x_3x_4^2x_5^4x_6^4x_8^4x_9^4x_{10}^3x_{11}^4$	$-1 \cdot 2$
(1, 3, 5, 2)	(0, 1, 1, 2, 2, 1, 2, 2, 3, 3, 2)	25	$x_3x_4^4x_5^4x_6^2x_7^4x_8^4x_9x_{10}x_{11}^4$	$2 \cdot 3$
(1, 4, 6, 0)	(1, 1, 0, 1, 2, 2, 2, 2, 1, 2, 2)	31	$x_2x_4^2x_5x_6^4x_7^5x_8^3x_9^5x_{10}^5x_{11}^5$	$-1 \cdot 3$
(1, 3, 6, 1)	(0, 1, 1, 1, 2, 2, 2, 2, 3, 2, 2)	29	$x_3^2x_4^2x_5x_6^4x_7^5x_8^5x_{10}^5x_{11}^5$	3
(1, 2, 6, 2)	(1, 0, 2, 2, 2, 3, 2, 2, 1, 3, 2)	27	$x_4^4x_5^5x_6x_7^5x_8^5x_9x_{10}x_{11}^5$	$2^2$
(1, 3, 7, 0)	(0, 2, 1, 2, 1, 2, 2, 1, 2, 2, 2)	35	$x_4^2x_5^2x_6^5x_7^6x_8^2x_9^6x_{10}^6x_{11}^6$	3
(1, 2, 7, 1)	(0, 2, 1, 2, 1, 2, 2, 3, 2, 2, 2)	33	$x_3x_4^2x_5x_6^5x_7^6x_9^6x_{10}^6x_{11}^6$	3
(1, 2, 8, 0)	(0, 2, 1, 2, 2, 2, 2, 2, 1, 2, 2)	40	$x_2x_4x_5^3x_6^6x_7^7x_8^7x_9x_{10}^7x_{11}^7$	3
(1, 1, 8, 1)	(1, 2, 2, 2, 2, 2, 3, 0, 2, 2, 2)	38	$x_2^2x_3^3x_4^6x_5^7x_6^6x_7^6x_{10}^7x_{11}^7$	5
(1, 1, 9, 0)	(2, 0, 2, 2, 2, 1, 2, 2, 2, 2, 2)	47	$x_1x_3^3x_4^5x_5^7x_6^8x_7^8x_9^8x_{10}^8x_{11}^8$	1
(1, 0, 10, 0)	(2, 0, 2, 2, 2, 2, 2, 2, 2, 2, 2)	73	$x_1^8x_3^8x_4^8x_5^9x_7^8x_8^5x_9^9x_{10}^9x_{11}^9$ $x_1^8x_3^8x_4^9x_5^8x_7^8x_8^9x_9^9x_{10}^9x_{11}^9$	$-1 \cdot 3 \cdot 5 \cdot 11$ $5 \cdot 77863$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(0, 11, 0, 0)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	67	$x_1 x_2^3 x_3^4 x_4^5 x_5^8 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^{10} x_{11}^{10}$	7
(0, 10, 0, 1)	(1, 1, 1, 1, 1, 1, 1, 3, 1, 1, 1)	57	$x_1^2 x_2^2 x_3^3 x_4^8 x_5^8 x_6^8 x_7^8 x_8^9 x_9^9 x_{10}^9 x_{11}^9$	-1
(0, 9, 0, 2)	(1, 1, 1, 1, 3, 1, 1, 1, 3, 1, 1)	49	$x_1 x_2^3 x_3^4 x_4^8 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8$	2
(0, 8, 0, 3)	(1, 1, 1, 1, 3, 1, 1, 1, 1, 3, 3)	43	$x_1^2 x_2^2 x_3^5 x_4^7 x_5^2 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^2 x_{11}^2$	$2^5$
(0, 7, 0, 4)	(1, 1, 1, 3, 3, 1, 1, 1, 1, 3, 3, 3)	39	$x_2 x_3^4 x_4^2 x_5^5 x_6^6 x_7^6 x_8^6 x_9^3 x_{10}^3 x_{11}^3$	2
(0, 6, 0, 5)	(1, 1, 1, 1, 1, 3, 3, 3, 1, 3, 3)	37	$x_1 x_2 x_3^3 x_4^5 x_5^5 x_6^2 x_7^3 x_8^4 x_9^5 x_{10}^4 x_{11}^4$	-1
(0, 10, 1, 0)	(1, 1, 1, 1, 1, 1, 1, 2, 1, 1, 1)	56	$x_1 x_2^2 x_3^4 x_4^6 x_5^7 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9$	2
(0, 9, 1, 1)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 2, 3)	48	$x_1^2 x_2^3 x_3^4 x_4^7 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8$	3
(0, 8, 1, 2)	(1, 1, 1, 1, 1, 1, 1, 3, 1, 2, 3)	40	$x_2 x_3^3 x_4^6 x_5^7 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7$	$-1 \cdot 3$
(0, 7, 1, 3)	(1, 1, 1, 1, 1, 1, 1, 2, 3, 3, 3)	36	$x_1 x_2^2 x_3^3 x_4^6 x_5^6 x_6^6 x_7^6 x_8^2 x_9^2 x_{10}^2 x_{11}^2$	2
(0, 6, 1, 4)	(1, 1, 1, 1, 1, 2, 3, 1, 3, 3, 3)	32	$x_2 x_3^4 x_4^5 x_5^5 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	-1
(0, 5, 1, 5)	(1, 1, 1, 1, 1, 2, 3, 3, 3, 3, 3)	32	$x_1 x_2^2 x_3^3 x_4^4 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4$	2
(0, 9, 2, 0)	(1, 1, 1, 1, 1, 1, 1, 1, 2, 1, 2)	49	$x_1^2 x_2^2 x_3^3 x_4^8 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8$	$-1 \cdot 2$
(0, 8, 2, 1)	(1, 1, 1, 1, 1, 1, 1, 2, 3, 2, 1)	41	$x_2 x_3^3 x_4^7 x_5^7 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7$	$-1 \cdot 2^2$
(0, 7, 2, 2)	(1, 1, 1, 1, 1, 1, 1, 3, 2, 3, 2)	35	$x_1 x_2^2 x_3^4 x_4^6 x_5^6 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6$	$-1 \cdot 2$
(0, 6, 2, 3)	(1, 1, 1, 1, 1, 1, 2, 3, 3, 3, 2)	31	$x_1 x_2^2 x_3^5 x_4^5 x_5^5 x_6^5 x_7^2 x_8^2 x_9^2 x_{10}^2 x_{11}^2$	$-1 \cdot 2$
(0, 5, 2, 4)	(1, 1, 1, 1, 2, 3, 2, 1, 3, 3, 3)	29	$x_1^4 x_2^4 x_3^4 x_4^4 x_5^3 x_6^3 x_7^3 x_8^3 x_9^2 x_{10}^2$	2
(0, 8, 3, 0)	(1, 1, 1, 1, 1, 1, 1, 2, 2, 1, 2)	43	$x_2^2 x_3^6 x_4^6 x_5^7 x_6^7 x_7^7 x_8^2 x_9^2 x_{10}^2 x_{11}^2$	$-1 \cdot 2$
(0, 7, 3, 1)	(1, 1, 1, 1, 1, 1, 1, 2, 2, 3, 2)	35	$x_2 x_3^4 x_4^6 x_5^6 x_6^6 x_7^2 x_8^2 x_9^2 x_{10}^2 x_{11}^2$	$-1 \cdot 2$
(0, 6, 3, 2)	(1, 1, 1, 1, 1, 2, 1, 2, 3, 2, 3)	31	$x_2^3 x_3^5 x_4^5 x_5^5 x_6^2 x_7^2 x_8^2 x_9^2 x_{10}^2 x_{11}^2$	$-1 \cdot 2^3$
(0, 5, 3, 3)	(1, 1, 1, 1, 1, 2, 3, 3, 2, 3, 2)	27	$x_1^4 x_2^4 x_3^3 x_4^4 x_5^3 x_6^2 x_7^2 x_8^2 x_9^2 x_{10}^2$	-1
(0, 4, 3, 4)	(1, 1, 1, 2, 1, 2, 3, 2, 3, 3, 3)	27	$x_2^3 x_3^3 x_4^2 x_5^3 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	2
(0, 7, 4, 0)	(1, 1, 1, 1, 1, 1, 2, 2, 1, 2, 2)	39	$x_2 x_3^3 x_4^5 x_5^6 x_6^6 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	$-1 \cdot 2^3$
(0, 6, 4, 1)	(1, 1, 1, 1, 1, 2, 3, 2, 2, 1, 2)	33	$x_1^5 x_2^5 x_3^4 x_4^5 x_5^4 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3$	-1
(0, 5, 4, 2)	(1, 1, 1, 1, 1, 2, 3, 2, 2, 3, 2)	29	$x_1 x_2^2 x_3^4 x_4^4 x_5^4 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	$2 \cdot 3$
(0, 4, 4, 3)	(1, 1, 1, 2, 1, 2, 3, 3, 2, 3, 2)	27	$x_1 x_2^2 x_3^3 x_4^3 x_5^3 x_6^2 x_7^2 x_8^2 x_9^2 x_{10}^2 x_{11}^2$	$2^4$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(0, 6, 5, 0)	(1, 1, 1, 1, 2, 1, 2, 2, 2, 1, 2)	36	$x_2x_3^2x_4^5x_5^2x_6^5x_7^4x_8^4x_9^4x_{10}^5x_{11}^4$	$2^2$
(0, 5, 5, 1)	(1, 1, 1, 1, 1, 2, 2, 2, 3, 2, 2)	32	$x_1x_2^2x_3^2x_4^4x_5^4x_6^3x_7^4x_8^4x_{10}^4x_{11}^4$	$-1 \cdot 3$
(0, 4, 5, 2)	(1, 1, 1, 2, 1, 2, 3, 2, 2, 3, 2)	28	$x_2x_3^2x_4^4x_5^3x_6^4x_7x_8^4x_9^4x_{10}x_{11}^4$	$2^2 \cdot 3$
(0, 3, 5, 3)	(1, 1, 1, 2, 2, 2, 3, 2, 2, 3, 3)	28	$x_2^2x_3^2x_4^2x_5^4x_6^4x_7^2x_8^4x_9^4x_{10}^2x_{11}^2$	$2^2 \cdot 3$
(0, 5, 6, 0)	(1, 1, 1, 1, 2, 2, 2, 1, 2, 2, 2)	37	$x_1x_2x_3^2x_4^4x_5x_6^4x_7^5x_8^4x_9^5x_{10}^5x_{11}^5$	3
(0, 4, 6, 1)	(1, 1, 1, 2, 1, 2, 2, 2, 3, 2, 2)	33	$x_2x_3^3x_4^2x_5^3x_6^4x_7^5x_8^5x_{10}^5x_{11}^5$	3
(0, 3, 6, 2)	(1, 1, 1, 2, 2, 3, 2, 2, 2, 3, 2)	31	$x_1x_2x_3^2x_4^2x_5^3x_6^5x_7^5x_8^5x_9^5x_{10}x_{11}^5$	$-1 \cdot 2^2$
(0, 4, 7, 0)	(1, 1, 1, 2, 2, 2, 2, 1, 2, 2, 2)	39	$x_2^2x_3^2x_4x_5^2x_6^5x_7^6x_8^3x_9^6x_{10}^6x_{11}^6$	3
(0, 3, 7, 1)	(1, 1, 1, 2, 2, 2, 2, 3, 2, 2, 2)	35	$x_2x_3^2x_4x_5^2x_6^5x_7^6x_8^6x_{10}^6x_{11}^6$	$-1 \cdot 3$
(0, 2, 7, 2)	(1, 2, 1, 2, 2, 2, 3, 2, 2, 2, 3)	35	$x_2x_3x_4^2x_5^5x_6^6x_7x_8^6x_9^6x_{10}^6x_{11}^6$	$-1 \cdot 3$
(0, 3, 8, 0)	(1, 1, 2, 2, 2, 2, 1, 2, 2, 2, 2)	43	$x_2x_3x_4^2x_5^4x_6^6x_7^2x_8^6x_9^7x_{10}^7x_{11}^7$	1
(0, 2, 8, 1)	(1, 2, 2, 2, 3, 2, 2, 2, 2, 1, 2)	41	$x_1x_3^3x_4^3x_5^5x_6^7x_7^7x_8^7x_{10}x_{11}^7$	$-1 \cdot 2$
(0, 2, 9, 0)	(2, 1, 2, 2, 2, 2, 2, 1, 2, 2, 2)	48	$x_1x_3^2x_4^5x_5^7x_6^8x_8x_9^8x_{10}^8x_{11}^8$	3
(0, 1, 9, 1)	(1, 2, 2, 2, 2, 2, 3, 2, 2, 2, 2)	48	$x_3^2x_4^3x_5^5x_6^7x_8^7x_9^8x_{10}^8x_{11}^8$	1
(0, 1, 10, 0)	(2, 2, 2, 2, 2, 1, 2, 2, 2, 2, 2)	57	$x_1x_2^3x_3^4x_4^6x_5^8x_8^8x_9^9x_{10}^9x_{11}^9$	-1
(0, 0, 11, 0)	(2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2)	85	$x_1^3x_2^4x_3^8x_4^{10}x_5^{10}x_6^{10}x_8^{10}x_9^{10}x_{10}^{10}x_{11}^{10}$ $x_1^3x_2^4x_3^9x_4^{10}x_5^{10}x_6^{10}x_8^{10}x_9^{10}x_{10}^{10}x_{11}^{10}$	$-1 \cdot 2^2 \cdot 74257$ $-1 \cdot 90997$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(11, 0, 0, 0, 0)	(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)	109	$x_1^9x_2^{10}x_3^{10}x_4^{10}x_5^{10}x_6^{10}x_7^{10}x_8^{10}x_9^{10}x_{10}^{10}x_{11}^{10}$ $x_1^{10}x_2^9x_3^{10}x_4^{10}x_5^{10}x_6^{10}x_7^{10}x_8^{10}x_9^{10}x_{10}^{10}x_{11}^{10}$	$-1 \cdot 2^3 \cdot 5 \cdot 11 \cdot 3019 \cdot 13647452681$ $-1 \cdot 2^3 \cdot 3^2 \cdot 644208651072689$
(10, 1, 0, 0, 0)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0)	65	$x_1x_2^3x_3^7x_4^9x_5^9x_8^9x_9^9x_{10}^9x_{11}^9$ $x_1x_2^4x_3^6x_4^9x_5^9x_8^9x_9^9x_{10}^9x_{11}^9$	$-1 \cdot 2^2 \cdot 3 \cdot 7 \cdot 11$ $-1 \cdot 2^2 \cdot 5^2 \cdot 23$
(9, 2, 0, 0, 0)	(0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0)	46	$x_1x_2^3x_3^5x_5^5x_6^8x_8x_9^7x_{10}^8x_{11}^8$	$-1 \cdot 2$
(9, 1, 1, 0, 0)	(0, 0, 0, 1, 0, 0, 0, 2, 0, 0, 0)	45	$x_1x_2^3x_3^5x_5^5x_6^8x_9^7x_{10}^8x_{11}^8$	$-1 \cdot 2$
(9, 1, 0, 0, 1)	(0, 1, 0, 0, 0, 0, 0, 4, 0, 0, 0)	56	$x_1^2x_3^6x_4^8x_5^8x_6^8x_8^8x_{10}^8x_{11}^8$ $x_1^3x_3^5x_4^8x_5^8x_6^8x_9^8x_{10}^8x_{11}^8$	$2 \cdot 227$ $-1 \cdot 2 \cdot 5 \cdot 17$
(8, 3, 0, 0, 0)	(0, 0, 1, 0, 0, 1, 0, 0, 1, 0, 0)	35	$x_1x_2^3x_4^3x_5^5x_6x_8^7x_9^2x_{10}^6x_{11}^7$	-1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(8, 2, 1, 0, 0)	(0, 0, 1, 0, 0, 1, 0, 0, 2, 0, 0)	33	$x_1 x_2^3 x_4^3 x_5^5 x_6^7 x_8^6 x_{10}^7 x_{11}^7$	-1
(8, 2, 0, 1, 0)	(0, 0, 3, 0, 0, 0, 1, 0, 0, 0, 1)	38	$x_1 x_2^3 x_4^2 x_5^4 x_6^7 x_8^6 x_9^7 x_{10}^7 x_{11}$	1
(8, 2, 0, 0, 1)	(0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 4)	39	$x_2^2 x_3^5 x_4 x_5^4 x_6^7 x_8^6 x_9^7 x_{10}^7$	1
(8, 1, 1, 1, 0)	(0, 0, 3, 0, 0, 1, 0, 0, 2, 0, 0)	32	$x_1 x_2^3 x_4^3 x_5^5 x_8^7 x_{10}^6 x_{11}^7$	-1
(7, 4, 0, 0, 0)	(0, 0, 1, 0, 1, 0, 0, 1, 0, 1, 0)	29	$x_1 x_2^3 x_4^3 x_5 x_6^5 x_8^2 x_9^5 x_{10}^3 x_{11}^6$	1
(7, 3, 1, 0, 0)	(2, 0, 0, 1, 0, 0, 1, 0, 0, 1, 0)	28	$x_3^2 x_4 x_5^2 x_6^4 x_8^5 x_9^6 x_{10}^2 x_{11}^6$	-1
(7, 3, 0, 1, 0)	(0, 0, 1, 1, 0, 0, 1, 0, 0, 3, 0)	29	$x_2^2 x_3^2 x_4^2 x_5^2 x_6^4 x_8^5 x_9^6 x_{11}^6$	-1
(7, 3, 0, 0, 1)	(0, 0, 1, 0, 0, 1, 1, 0, 0, 4, 0)	29	$x_2^2 x_3 x_4^2 x_5^5 x_6^2 x_8^5 x_9^6 x_{11}^6$	-1
(7, 2, 2, 0, 0)	(0, 2, 0, 0, 1, 0, 0, 1, 0, 2, 0)	25	$x_1 x_2^3 x_4^4 x_6^5 x_8^5 x_{10} x_{11}^6$	1
(7, 2, 1, 1, 0)	(0, 1, 0, 0, 2, 0, 1, 0, 0, 3, 0)	24	$x_2 x_3 x_4^3 x_6^3 x_8^4 x_9^6 x_{11}^6$	-1
(7, 2, 1, 0, 1)	(0, 1, 0, 1, 0, 0, 2, 0, 0, 4, 0)	24	$x_3 x_4 x_5^2 x_6^4 x_8^4 x_9^6 x_{11}^6$	1
(7, 2, 0, 1, 1)	(0, 1, 0, 0, 1, 0, 0, 3, 4, 0, 0)	27	$x_1 x_3^3 x_4^5 x_5 x_6^6 x_{10}^5 x_{11}^6$	-1
(7, 2, 0, 0, 2)	(0, 0, 1, 0, 0, 1, 0, 0, 0, 4, 4)	33	$x_1 x_2^3 x_4^3 x_5^6 x_6^5 x_7^6 x_8^6 x_9^6 x_{10} x_{11}$	1
(7, 1, 1, 1, 1)	(0, 4, 0, 0, 3, 0, 0, 1, 0, 0, 2)	25	$x_1^2 x_3^2 x_4^4 x_6^6 x_9^5 x_{10}^6$	1
(6, 5, 0, 0, 0)	(0, 1, 0, 0, 1, 0, 1, 0, 1, 0, 1)	27	$x_1 x_2 x_3 x_4^3 x_5^2 x_6^3 x_8^4 x_9^3 x_{10}^5 x_{11}^4$	-1
(6, 4, 1, 0, 0)	(0, 1, 0, 1, 0, 1, 0, 0, 1, 0, 2)	24	$x_1 x_2 x_3^3 x_4 x_5^3 x_6^2 x_8^5 x_9^3 x_{10}^5$	-1
(6, 4, 0, 1, 0)	(0, 1, 0, 0, 1, 1, 0, 1, 0, 3, 0)	24	$x_1 x_3^2 x_4^4 x_5^2 x_6^2 x_8^3 x_9^5 x_{11}^5$	1
(6, 4, 0, 0, 1)	(4, 0, 1, 0, 1, 0, 1, 0, 1, 0, 0)	24	$x_3^2 x_4^2 x_5^2 x_6^2 x_8^4 x_9^3 x_{10}^4 x_{11}^5$	-1
(6, 3, 2, 0, 0)	(0, 1, 0, 2, 0, 0, 1, 0, 1, 2, 0)	22	$x_2 x_3 x_5^2 x_6^5 x_8^5 x_9^2 x_{10} x_{11}^5$	-1
(6, 3, 1, 1, 0)	(0, 1, 0, 0, 1, 2, 0, 0, 3, 1, 0)	21	$x_3 x_4^3 x_5 x_7^4 x_8^5 x_{10}^2 x_{11}^5$	1
(6, 3, 1, 0, 1)	(0, 0, 1, 0, 0, 1, 0, 2, 4, 0, 1)	21	$x_2^2 x_4^2 x_5^4 x_6 x_7^5 x_{10}^5 x_{11}^2$	-1
(6, 3, 0, 2, 0)	(0, 1, 0, 1, 0, 1, 0, 0, 3, 3, 0)	22	$x_1 x_3^3 x_4 x_5^3 x_6^2 x_8^5 x_9 x_{10} x_{11}^5$	1
(6, 3, 0, 1, 1)	(1, 0, 0, 3, 0, 4, 0, 0, 1, 1, 0)	23	$x_3^2 x_5^3 x_7^4 x_8^5 x_9^2 x_{10}^5 x_{11}^5$	-1
(6, 3, 0, 0, 2)	(0, 4, 0, 0, 1, 1, 1, 0, 0, 4, 0)	25	$x_3 x_4^3 x_5^2 x_6^2 x_7^2 x_8^4 x_9^5 x_{10} x_{11}^5$	-1
(6, 2, 2, 1, 0)	(0, 2, 0, 1, 3, 0, 2, 0, 1, 0, 0)	20	$x_3 x_6^3 x_7 x_8^5 x_9 x_{10}^4 x_{11}^5$	-1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(6, 2, 2, 0, 1)	(0, 1, 0, 2, 0, 4, 0, 2, 0, 0, 1)	19	$x_1 x_3 x_5^2 x_7^4 x_8 x_9^4 x_{10}^5 x_{11}$	1
(6, 2, 1, 1, 1)	(0, 0, 3, 4, 0, 0, 1, 1, 0, 2, 0)	19	$x_2^2 x_3^2 x_6^4 x_7 x_8 x_9^4 x_{11}^5$	1
(6, 2, 1, 0, 2)	(0, 0, 4, 4, 0, 1, 2, 0, 1, 0, 0)	20	$x_2^2 x_4 x_5^2 x_6 x_8^4 x_9 x_{10}^4 x_{11}^5$	-1
(5, 6, 0, 0, 0)	(0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 1)	29	$x_1 x_2 x_3^3 x_4 x_5^3 x_6^2 x_8^4 x_9^4 x_{10}^5 x_{11}^5$	-1
(5, 5, 1, 0, 0)	(0, 1, 1, 0, 1, 0, 0, 1, 0, 2, 1)	24	$x_1 x_3^2 x_4^3 x_5^2 x_6^4 x_8^4 x_9^4 x_{11}^4$	-1
(5, 5, 0, 1, 0)	(0, 0, 1, 0, 1, 1, 0, 1, 0, 3, 1)	24	$x_1 x_2^3 x_4^3 x_5 x_6^4 x_8^4 x_9^4 x_{11}^4$	-1
(5, 5, 0, 0, 1)	(1, 4, 1, 0, 1, 0, 1, 0, 1, 0, 0)	24	$x_1^2 x_3^3 x_4 x_5^3 x_6 x_8^3 x_9^4 x_{10}^3 x_{11}^4$	1
(5, 4, 2, 0, 0)	(0, 1, 0, 2, 0, 1, 0, 1, 2, 0, 1)	21	$x_3 x_4 x_5^3 x_6 x_7^4 x_8^3 x_9 x_{10}^4 x_{11}^3$	2
(5, 4, 1, 1, 0)	(0, 3, 1, 2, 0, 1, 0, 1, 0, 1, 0)	20	$x_3 x_5 x_6 x_7^3 x_8^3 x_9^4 x_{10}^3 x_{11}^4$	-1 · 2
(5, 4, 1, 0, 1)	(0, 1, 0, 0, 2, 4, 0, 1, 1, 0, 1)	19	$x_1 x_3 x_4^3 x_7^3 x_8^2 x_9^4 x_{10}^3 x_{11}^3$	-1
(5, 4, 0, 2, 0)	(3, 3, 0, 1, 0, 1, 0, 1, 0, 1, 0)	20	$x_2 x_5 x_6^2 x_7^3 x_8^2 x_9^4 x_{10}^3 x_{11}^4$	1
(5, 4, 0, 1, 1)	(0, 0, 1, 0, 1, 0, 1, 1, 0, 4, 3)	20	$x_2^2 x_3 x_4^3 x_5 x_6^3 x_7^3 x_8^3 x_9^4$	-1
(5, 4, 0, 0, 2)	(0, 0, 1, 0, 0, 1, 1, 1, 0, 4, 4)	21	$x_2^2 x_4^2 x_5^4 x_6^2 x_7^3 x_8^4 x_9 x_{10} x_{11}$	-1
(5, 3, 3, 0, 0)	(0, 1, 1, 0, 2, 2, 0, 2, 0, 1, 0)	20	$x_3 x_4 x_5 x_6^2 x_7^3 x_8^4 x_9^2 x_{10}^2 x_{11}^4$	-1
(5, 3, 2, 1, 0)	(0, 1, 0, 0, 2, 0, 1, 3, 0, 2, 1)	17	$x_1 x_3 x_4^3 x_6^4 x_7 x_9^4 x_{10} x_{11}^2$	1
(5, 3, 2, 0, 1)	(0, 2, 0, 4, 2, 0, 1, 0, 1, 1, 0)	18	$x_3^2 x_5 x_6^2 x_7 x_8^4 x_9^2 x_{10}^2 x_{11}^4$	-1
(5, 3, 1, 2, 0)	(0, 2, 1, 0, 0, 1, 0, 3, 3, 1, 0)	18	$x_4 x_5^3 x_6^2 x_7^4 x_8 x_9 x_{10}^2 x_{11}^4$	2
(5, 3, 1, 1, 1)	(0, 0, 2, 1, 1, 0, 4, 0, 3, 0, 1)	17	$x_2^3 x_5 x_6^3 x_8^4 x_{10}^4 x_{11}^2$	-1
(5, 3, 1, 0, 2)	(0, 0, 1, 1, 4, 1, 0, 2, 0, 4, 0)	18	$x_2^2 x_3 x_4 x_5 x_6^2 x_7^3 x_9^3 x_{10} x_{11}^4$	-1
(5, 3, 0, 2, 1)	(0, 1, 0, 3, 0, 4, 3, 1, 0, 0, 1)	18	$x_3^2 x_4 x_5^4 x_7 x_8 x_9^3 x_{10}^4 x_{11}^2$	1
(5, 3, 0, 1, 2)	(0, 1, 0, 3, 4, 0, 4, 0, 0, 1, 1)	18	$x_3^2 x_6^4 x_7 x_8^3 x_9^4 x_{10}^2 x_{11}^2$	-1
(5, 3, 0, 0, 3)	(0, 1, 0, 1, 1, 0, 0, 4, 0, 4, 4)	22	$x_1 x_3 x_4 x_5^2 x_6^3 x_7^4 x_8^2 x_9^4 x_{10}^2 x_{11}^2$	-1
(5, 2, 2, 2, 0)	(0, 0, 3, 3, 2, 1, 0, 0, 2, 1, 0)	17	$x_2^2 x_4 x_5 x_7^3 x_8^4 x_9 x_{10} x_{11}^4$	1
(5, 2, 2, 1, 1)	(0, 0, 1, 0, 2, 0, 4, 2, 0, 3, 1)	16	$x_2^2 x_4^3 x_5 x_6^4 x_8 x_9^4 x_{11}$	-1 · 3
(5, 2, 1, 1, 2)	(0, 0, 1, 0, 3, 0, 4, 4, 0, 1, 2)	16	$x_1 x_2^3 x_4^2 x_6^3 x_7 x_8 x_9^4 x_{10}$	-1
(4, 7, 0, 0, 0)	(1, 1, 0, 1, 0, 0, 1, 0, 1, 1, 1)	32	$x_1 x_2^3 x_3 x_4^3 x_5 x_6^3 x_8^3 x_9^5 x_{10}^6 x_{11}^6$	-1



$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(4, 6, 1, 0, 0)	(2, 0, 1, 1, 0, 0, 1, 1, 0, 1, 1)	26	$x_3^2 x_4^2 x_5^2 x_6^3 x_8^4 x_9^3 x_{10}^5 x_{11}^5$	-1
(4, 6, 0, 1, 0)	(1, 1, 0, 1, 0, 0, 1, 0, 1, 1, 3)	26	$x_1^2 x_2^2 x_4^4 x_5^2 x_6^3 x_8^3 x_9^5 x_{10}^5$	1
(4, 6, 0, 0, 1)	(1, 0, 0, 1, 1, 4, 0, 1, 1, 0, 1)	25	$x_2 x_3^3 x_4 x_5^4 x_8^4 x_9^4 x_{10}^3 x_{11}^5$	1
(4, 5, 2, 0, 0)	(0, 1, 1, 0, 2, 0, 2, 1, 1, 0, 1)	22	$x_3 x_4^2 x_5 x_6^3 x_7 x_8^4 x_9^3 x_{10}^3 x_{11}^4$	2
(4, 5, 1, 1, 0)	(1, 1, 0, 1, 0, 2, 1, 0, 3, 0, 1)	20	$x_2 x_4^2 x_5^3 x_7^4 x_8^3 x_{10}^3 x_{11}^4$	-1
(4, 5, 1, 0, 1)	(0, 4, 1, 1, 1, 0, 1, 0, 1, 0, 2)	21	$x_1 x_3^2 x_4^2 x_5^2 x_6 x_7^3 x_8^3 x_9^4 x_{10}^3$	1
(4, 5, 0, 2, 0)	(3, 0, 1, 0, 1, 1, 1, 0, 0, 3, 1)	22	$x_4^2 x_5^2 x_6^4 x_7^4 x_8^2 x_9^3 x_{10} x_{11}^4$	1
(4, 5, 0, 1, 1)	(0, 1, 0, 1, 1, 1, 0, 1, 3, 4, 0)	21	$x_3^2 x_4^3 x_5^3 x_6^3 x_7^3 x_8^4 x_{11}^3$	-1
(4, 5, 0, 0, 2)	(4, 0, 4, 0, 1, 1, 1, 0, 1, 0, 1)	22	$x_2 x_3 x_4^2 x_5^2 x_6^2 x_7^2 x_8^2 x_9^3 x_{10}^3 x_{11}^4$	1
(4, 4, 3, 0, 0)	(0, 1, 1, 0, 1, 1, 0, 2, 2, 0, 2)	19	$x_1 x_3 x_4 x_5^2 x_6^3 x_7^2 x_8^2 x_9^2 x_{10}^3 x_{11}^2$	-1
(4, 4, 2, 1, 0)	(0, 2, 0, 0, 1, 1, 1, 3, 1, 2, 0)	18	$x_3^2 x_4^3 x_6^3 x_7^3 x_9^3 x_{10} x_{11}^3$	-1 · 2
(4, 4, 2, 0, 1)	(0, 0, 4, 2, 1, 1, 0, 1, 0, 2, 1)	18	$x_2^2 x_5 x_6^2 x_7^3 x_8^3 x_9^3 x_{10} x_{11}^3$	-1
(4, 4, 1, 2, 0)	(0, 0, 1, 0, 3, 3, 1, 0, 1, 2, 1)	18	$x_2^2 x_4^3 x_5 x_6 x_7^2 x_8^3 x_9^3 x_{11}^3$	1
(4, 4, 1, 1, 1)	(0, 0, 1, 3, 0, 4, 1, 2, 1, 0, 1)	17	$x_2^2 x_3 x_5^3 x_7^3 x_9^2 x_{10}^3 x_{11}^3$	-1
(4, 4, 1, 0, 2)	(0, 1, 0, 2, 4, 0, 1, 1, 0, 4, 1)	18	$x_3 x_5 x_6^3 x_7^3 x_8^3 x_9^3 x_{10} x_{11}^3$	-1 · 2 · 3
(4, 4, 0, 3, 0)	(0, 1, 3, 0, 3, 1, 3, 1, 0, 1, 0)	20	$x_4 x_5^2 x_6^3 x_7^2 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	3
(4, 4, 0, 2, 1)	(0, 1, 0, 1, 1, 0, 3, 1, 3, 4, 0)	18	$x_3^2 x_4^2 x_5^3 x_6^3 x_7 x_8^3 x_9 x_{11}^3$	-1
(4, 4, 0, 1, 2)	(0, 1, 0, 3, 4, 4, 0, 1, 0, 1, 1)	17	$x_1 x_3 x_6 x_7^2 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	-1
(4, 4, 0, 0, 3)	(0, 4, 0, 1, 1, 1, 1, 0, 4, 4, 0)	20	$x_3 x_4^2 x_5^2 x_6^2 x_7^3 x_8^3 x_9^2 x_{10}^2 x_{11}^3$	-1
(4, 3, 3, 1, 0)	(0, 1, 0, 2, 0, 0, 1, 1, 2, 2, 3)	17	$x_3^2 x_4^2 x_5^2 x_6^3 x_7^2 x_8^2 x_9^2 x_{10}^2$	-1
(4, 3, 3, 0, 1)	(0, 1, 0, 2, 0, 4, 2, 0, 2, 1, 1)	17	$x_1 x_3^2 x_4 x_5^3 x_7 x_8^3 x_9^2 x_{10}^2 x_{11}^2$	1
(4, 3, 2, 2, 0)	(0, 1, 0, 3, 3, 0, 1, 1, 0, 2, 2)	16	$x_3^2 x_4 x_5 x_6^3 x_7^2 x_8^2 x_9^3 x_{10} x_{11}$	-1
(4, 3, 2, 1, 1)	(0, 0, 2, 1, 0, 3, 0, 1, 2, 4, 1)	15	$x_2^2 x_4^2 x_5^3 x_7^3 x_8^2 x_9 x_{11}^2$	-1
(4, 3, 2, 0, 2)	(0, 1, 0, 1, 1, 4, 2, 0, 4, 0, 2)	15	$x_1 x_3 x_4 x_5^2 x_6 x_7 x_8^3 x_9 x_{10}^3 x_{11}$	-1
(4, 3, 1, 2, 1)	(0, 0, 1, 2, 1, 0, 4, 3, 1, 0, 3)	15	$x_1 x_2^3 x_5 x_6^3 x_8 x_9^2 x_{10}^3 x_{11}$	1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(4, 3, 1, 1, 2)	(0, 0, 1, 1, 2, 0, 3, 1, 0, 4, 4)	15	$x_2^2 x_3 x_4^2 x_6^3 x_8^2 x_9^3 x_{10} x_{11}$	2
(4, 3, 1, 0, 3)	(0, 0, 1, 0, 1, 2, 0, 4, 4, 1, 4)	17	$x_2^2 x_4^2 x_5^2 x_7^3 x_8^2 x_9^2 x_{10}^2 x_{11}^2$	-1
(4, 3, 0, 2, 2)	(0, 1, 0, 3, 4, 1, 0, 3, 0, 1, 4)	16	$x_2^2 x_3 x_4 x_6^2 x_7^3 x_8 x_9^3 x_{10}^2 x_{11}$	2
(4, 2, 2, 2, 1)	(0, 0, 1, 3, 2, 1, 0, 2, 4, 0, 3)	14	$x_2^2 x_3 x_4 x_5 x_6 x_7^3 x_8 x_{10}^3 x_{11}$	2
(3, 8, 0, 0, 0)	(1, 0, 1, 1, 1, 0, 1, 0, 1, 1, 1)	37	$x_1 x_3^2 x_4^4 x_5^5 x_6^2 x_8^2 x_9^7 x_{10}^7 x_{11}^7$	-1
(3, 7, 1, 0, 0)	(1, 1, 0, 1, 0, 1, 0, 1, 1, 1, 2)	30	$x_2^2 x_3^2 x_4^2 x_5^2 x_6^5 x_8^5 x_9^6 x_{10}^6$	1
(3, 7, 0, 1, 0)	(1, 1, 1, 3, 0, 1, 0, 1, 1, 0, 1)	29	$x_2 x_3^3 x_5^2 x_6^5 x_8^5 x_9^5 x_{10}^2 x_{11}^6$	-1
(3, 7, 0, 0, 1)	(1, 1, 0, 1, 4, 1, 1, 0, 0, 1, 1)	30	$x_1^2 x_2^2 x_3 x_4^5 x_5^5 x_8 x_9^2 x_{10}^6 x_{11}^6$	1
(3, 6, 2, 0, 0)	(1, 1, 0, 1, 0, 1, 0, 2, 1, 1, 2)	24	$x_2 x_4^2 x_5^2 x_6^5 x_7^2 x_8 x_9^5 x_{10}^5 x_{11}$	-1
(3, 6, 1, 1, 0)	(2, 0, 1, 0, 1, 0, 1, 1, 1, 3, 1)	24	$x_4 x_5 x_6^2 x_7^5 x_8^5 x_9^5 x_{11}^5$	1
(3, 6, 1, 0, 1)	(0, 1, 1, 1, 0, 1, 1, 4, 2, 1, 0)	24	$x_3^2 x_4^3 x_5^2 x_6^5 x_7^5 x_{10}^5 x_{11}^2$	1
(3, 6, 0, 2, 0)	(1, 1, 1, 0, 1, 1, 1, 0, 3, 3, 0)	25	$x_2^2 x_3^2 x_4^2 x_5^3 x_6^5 x_7^5 x_8^2 x_9 x_{10} x_{11}^2$	-1
(3, 6, 0, 1, 1)	(1, 3, 1, 4, 0, 1, 1, 1, 0, 1, 0)	24	$x_3^3 x_5 x_6^4 x_7^4 x_8^4 x_9 x_{10}^5 x_{11}^2$	1
(3, 6, 0, 0, 2)	(4, 1, 1, 0, 1, 1, 4, 0, 1, 0, 1)	25	$x_1 x_2 x_3 x_5^3 x_6^4 x_7 x_8^2 x_9^5 x_{10}^2 x_{11}^5$	1
(3, 5, 3, 0, 0)	(2, 0, 0, 1, 1, 0, 1, 1, 2, 1, 2)	22	$x_3^2 x_5^2 x_6^2 x_7^4 x_8^4 x_9^2 x_{10}^4 x_{11}^2$	2
(3, 5, 2, 1, 0)	(0, 1, 2, 0, 1, 2, 1, 0, 1, 1, 3)	20	$x_4 x_5^4 x_6 x_7^4 x_8^2 x_9^4 x_{10}^4$	-1 \cdot 2
(3, 5, 2, 0, 1)	(1, 0, 1, 1, 1, 1, 0, 2, 2, 0, 4)	20	$x_2 x_3 x_4^4 x_5^4 x_6^4 x_7^2 x_8 x_9 x_{10}^2$	-1
(3, 5, 1, 2, 0)	(1, 0, 1, 1, 0, 1, 0, 2, 1, 3, 3)	20	$x_3^2 x_4^4 x_5^2 x_6^4 x_7^2 x_8^4 x_{10} x_{11}$	-1
(3, 5, 1, 1, 1)	(0, 1, 1, 0, 1, 0, 1, 4, 3, 1, 2)	19	$x_3^3 x_4^2 x_5^4 x_6^2 x_7^4 x_{10}^4$	-1
(3, 5, 1, 0, 2)	(0, 1, 1, 1, 4, 1, 0, 1, 0, 2, 4)	19	$x_1 x_3 x_4^3 x_5 x_6^4 x_7^2 x_8^4 x_9^2 x_{11}$	-1
(3, 5, 0, 3, 0)	(0, 0, 1, 3, 3, 1, 3, 1, 0, 1, 1)	22	$x_2^2 x_4 x_5 x_6^2 x_7^2 x_8^4 x_9^2 x_{10}^4 x_{11}^4$	-1
(3, 5, 0, 2, 1)	(0, 1, 1, 1, 1, 0, 3, 1, 0, 3, 4)	19	$x_1 x_2 x_3 x_4^2 x_5^4 x_6^2 x_7 x_8^4 x_9^2 x_{10}$	1
(3, 5, 0, 1, 2)	(0, 4, 0, 1, 1, 1, 1, 0, 1, 3, 4)	20	$x_1 x_3^2 x_4^2 x_5^2 x_6^3 x_7^3 x_8^2 x_9^4 x_{11}$	1
(3, 5, 0, 0, 3)	(0, 4, 4, 1, 1, 1, 0, 1, 1, 0, 4)	22	$x_1 x_3 x_4 x_5^3 x_6^2 x_7^2 x_8^4 x_9^4 x_{10}^2 x_{11}^2$	1
(3, 4, 4, 0, 0)	(1, 0, 0, 2, 0, 1, 1, 2, 2, 1, 2)	21	$x_3^2 x_5^2 x_6^2 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	1
(3, 4, 3, 1, 0)	(0, 2, 1, 0, 1, 3, 2, 1, 1, 0, 2)	18	$x_3 x_4^2 x_5^3 x_7^2 x_8^3 x_9^3 x_{10}^2 x_{11}^2$	1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(3, 4, 3, 0, 1)	(0, 1, 1, 2, 4, 0, 0, 2, 1, 1, 2)	18	$x_1 x_3^2 x_4^2 x_6 x_7^2 x_8^2 x_9^3 x_{10}^3 x_{11}^2$	1
(3, 4, 2, 2, 0)	(0, 0, 3, 1, 2, 1, 0, 1, 3, 2, 1)	17	$x_2^2 x_3 x_4 x_5 x_6^2 x_7^2 x_8^3 x_9 x_{10} x_{11}^3$	-1
(3, 4, 2, 1, 1)	(0, 1, 0, 0, 1, 1, 1, 3, 2, 4, 2)	15	$x_1^2 x_3 x_4^2 x_5^2 x_6^3 x_7^3 x_9 x_{11}$	1
(3, 4, 2, 0, 2)	(0, 1, 1, 0, 2, 4, 0, 1, 4, 2, 1)	17	$x_2 x_3^3 x_4^2 x_6 x_7^2 x_8^3 x_9 x_{10} x_{11}^3$	2
(3, 4, 1, 3, 0)	(0, 1, 3, 3, 1, 0, 1, 2, 1, 0, 3)	17	$x_1 x_2 x_4 x_5^2 x_6^2 x_7^3 x_9^3 x_{10}^2 x_{11}^2$	1
(3, 4, 1, 2, 1)	(0, 0, 4, 3, 1, 0, 3, 1, 1, 1, 2)	16	$x_1 x_2^2 x_5 x_6^2 x_7 x_8^3 x_9^3 x_{10}^3$	1
(3, 4, 1, 1, 2)	(0, 0, 1, 3, 0, 2, 1, 1, 4, 1, 4)	16	$x_1 x_2^2 x_5^2 x_7^3 x_8^3 x_9 x_{10}^3 x_{11}$	1
(3, 4, 1, 0, 3)	(0, 1, 1, 4, 1, 2, 0, 4, 1, 4, 0)	18	$x_3^2 x_4^2 x_5^3 x_7^2 x_8^2 x_9^3 x_{10}^2 x_{11}^2$	$-1 \cdot 2 \cdot 3$
(3, 4, 0, 3, 1)	(0, 1, 0, 0, 3, 1, 3, 1, 3, 1, 4)	18	$x_1 x_3 x_4^2 x_5 x_6^3 x_7^2 x_8^3 x_9^2 x_{10}^3$	$-1 \cdot 2^2$
(3, 4, 0, 2, 2)	(0, 1, 3, 1, 4, 3, 4, 1, 1, 0, 0)	17	$x_1 x_3 x_4^3 x_5 x_6 x_7 x_8^3 x_9^3 x_{10} x_{11}^2$	$-1 \cdot 2$
(3, 4, 0, 1, 3)	(0, 1, 3, 0, 4, 0, 4, 4, 1, 1, 1)	18	$x_1 x_2 x_4^2 x_6^2 x_7 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	-1
(3, 4, 0, 0, 4)	(1, 1, 0, 1, 0, 1, 0, 4, 4, 4, 4)	20	$x_2 x_4^2 x_5 x_6^3 x_7^2 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	1
(3, 3, 3, 2, 0)	(0, 1, 2, 0, 1, 3, 0, 2, 2, 3, 1)	15	$x_1 x_4^2 x_5^2 x_6 x_7^2 x_8^2 x_9^2 x_{10} x_{11}^2$	$-1 \cdot 2$
(3, 3, 3, 1, 1)	(0, 0, 2, 2, 2, 1, 1, 0, 1, 3, 4)	15	$x_1 x_2^2 x_3 x_4^2 x_5^2 x_6^2 x_7 x_8^2 x_9^2$	1
(3, 3, 3, 0, 2)	(0, 1, 0, 1, 2, 4, 0, 1, 2, 2, 4)	16	$x_3^2 x_4^2 x_5^2 x_6 x_7^2 x_8^2 x_9^2 x_{10}^2 x_{11}$	2
(3, 3, 2, 2, 1)	(0, 0, 2, 1, 1, 3, 2, 4, 3, 0, 1)	14	$x_2^2 x_3 x_4^2 x_5^2 x_6 x_7 x_9 x_{10}^2 x_{11}^2$	-1
(3, 3, 2, 1, 2)	(0, 0, 1, 0, 2, 4, 1, 1, 3, 2, 4)	14	$x_2^2 x_3^2 x_4^2 x_5 x_6 x_7^2 x_8^2 x_{10} x_{11}$	2
(3, 3, 2, 0, 3)	(0, 1, 2, 4, 0, 4, 2, 1, 0, 1, 4)	16	$x_1 x_2 x_4 x_5^2 x_6^2 x_7 x_8^2 x_9^2 x_{10}^2 x_{11}^2$	$-1 \cdot 3$
(3, 3, 1, 2, 2)	(0, 0, 3, 1, 0, 2, 1, 1, 4, 4, 3)	14	$x_1 x_2^2 x_3 x_4^2 x_5^2 x_7 x_8^2 x_9 x_{10} x_{11}$	2
(3, 3, 1, 1, 3)	(0, 0, 4, 4, 3, 1, 0, 4, 2, 1, 1)	15	$x_1^2 x_2^2 x_4 x_6^2 x_7^2 x_8^2 x_{10}^2 x_{11}^2$	1
(3, 2, 2, 2, 2)	(0, 0, 2, 1, 3, 2, 1, 0, 3, 4, 4)	13	$x_1^2 x_2^2 x_3 x_5 x_6 x_7 x_8^2 x_9 x_{10} x_{11}$	-1
(2, 9, 0, 0, 0)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1)	44	$x_2 x_3 x_4^2 x_5^3 x_6^7 x_8^7 x_9^7 x_{10}^8 x_{11}^8$	-1
(2, 8, 1, 0, 0)	(1, 1, 1, 2, 1, 0, 1, 1, 1, 0, 1)	35	$x_1 x_2^2 x_3^5 x_5^6 x_6 x_8^6 x_9^6 x_{10} x_{11}^7$	$-1 \cdot 2$
(2, 8, 0, 1, 0)	(1, 1, 1, 0, 1, 0, 1, 1, 1, 3, 1)	36	$x_7^2 x_2^2 x_3^3 x_5^7 x_6 x_8^7 x_9^7 x_{11}^7$	-1
(2, 8, 0, 0, 1)	(4, 1, 1, 0, 1, 1, 0, 1, 1, 1, 1)	36	$x_2 x_3 x_4 x_5^3 x_6^3 x_8^6 x_9^7 x_{10}^7 x_{11}^7$	2

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(2, 7, 2, 0, 0)	(2, 1, 1, 0, 1, 2, 1, 1, 1, 1, 0)	30	$x_2 x_3^3 x_5^6 x_6 x_8^6 x_9^6 x_{10} x_{11}$	-1
(2, 7, 1, 1, 0)	(0, 3, 1, 1, 1, 0, 1, 1, 1, 2, 1)	29	$x_4^3 x_5^2 x_6 x_7^5 x_8^6 x_9^6 x_{11}^6$	-1
(2, 7, 1, 0, 1)	(2, 4, 0, 1, 1, 1, 0, 1, 1, 1, 1)	29	$x_4 x_5^2 x_6^2 x_7 x_8^5 x_9^6 x_{10} x_{11}^6$	-1 · 2
(2, 7, 0, 2, 0)	(1, 3, 0, 1, 3, 1, 1, 1, 1, 0, 1)	30	$x_1 x_4^5 x_5 x_6^6 x_8^5 x_9^5 x_{10} x_{11}^6$	2
(2, 7, 0, 1, 1)	(3, 0, 1, 1, 0, 1, 1, 4, 1, 1, 1)	29	$x_3 x_4^3 x_5 x_6^2 x_7^4 x_8^6 x_{10} x_{11}^6$	-1
(2, 7, 0, 0, 2)	(1, 1, 4, 1, 1, 0, 4, 1, 1, 0, 1)	29	$x_2^2 x_3 x_4^3 x_5^4 x_6 x_8^6 x_9^5 x_{10} x_{11}^6$	-1 · 2
(2, 6, 3, 0, 0)	(1, 0, 1, 1, 0, 1, 1, 2, 2, 1, 2)	26	$x_3^2 x_4^2 x_5 x_6^5 x_7^2 x_8^2 x_9^2 x_{10} x_{11}^2$	-1
(2, 6, 2, 1, 0)	(1, 0, 3, 1, 2, 1, 1, 0, 2, 1, 1)	24	$x_4^2 x_6^5 x_7^5 x_8 x_9 x_{10} x_{11}^5$	-1 · 2
(2, 6, 2, 0, 1)	(1, 0, 1, 1, 2, 2, 1, 1, 1, 4, 0)	24	$x_2 x_3 x_4^4 x_5 x_6 x_7^5 x_8^5 x_9^5 x_{11}$	-1 · 2
(2, 6, 1, 2, 0)	(0, 1, 1, 3, 1, 2, 0, 1, 3, 1, 1)	24	$x_3^3 x_4 x_5^3 x_7 x_8^5 x_9 x_{10} x_{11}^5$	3
(2, 6, 1, 1, 1)	(0, 1, 1, 1, 1, 0, 4, 1, 2, 1, 3)	22	$x_1 x_2 x_3^2 x_4^2 x_5^5 x_6 x_8^5 x_{10}^5$	1
(2, 6, 1, 0, 2)	(1, 1, 0, 1, 1, 4, 1, 1, 0, 2, 4)	24	$x_1 x_2^3 x_3 x_4^2 x_5^4 x_6 x_7^5 x_8^5 x_9 x_{11}$	-1
(2, 6, 0, 3, 0)	(1, 1, 1, 0, 1, 3, 1, 3, 3, 0, 1)	25	$x_2 x_3^2 x_5^5 x_6^2 x_7^5 x_8^2 x_9^2 x_{10} x_{11}^5$	-1 · 3
(2, 6, 0, 2, 1)	(0, 4, 1, 1, 1, 1, 1, 3, 0, 1, 3)	24	$x_3^2 x_4^2 x_5^2 x_6^5 x_7^5 x_8 x_9 x_{10} x_{11}^5$	2
(2, 6, 0, 1, 2)	(0, 1, 1, 4, 1, 1, 1, 0, 4, 3, 1)	24	$x_3^2 x_4 x_5^4 x_6^5 x_7^5 x_8 x_9 x_{11}^5$	-1
(2, 6, 0, 0, 3)	(1, 4, 4, 0, 1, 1, 1, 1, 0, 4, 1)	26	$x_2 x_3 x_5^3 x_6^3 x_7^5 x_8^5 x_9 x_{10} x_{11}^5$	-1
(2, 5, 4, 0, 0)	(2, 0, 1, 1, 0, 2, 1, 1, 2, 1, 2)	24	$x_3 x_4^2 x_5 x_6^2 x_7^4 x_8^4 x_9^3 x_{10} x_{11}^3$	2
(2, 5, 3, 1, 0)	(0, 2, 1, 3, 1, 2, 2, 1, 1, 0, 1)	21	$x_5^4 x_6^2 x_7^2 x_8^4 x_9^4 x_{10} x_{11}^4$	-1
(2, 5, 3, 0, 1)	(1, 0, 2, 1, 0, 2, 1, 1, 4, 2, 1)	20	$x_4^3 x_5 x_6^2 x_7^4 x_8^4 x_{10}^2 x_{11}^4$	1
(2, 5, 2, 2, 0)	(0, 2, 1, 1, 3, 1, 1, 2, 0, 3, 1)	19	$x_1 x_4^2 x_5 x_6^4 x_7^4 x_8 x_9 x_{10} x_{11}^4$	1
(2, 5, 2, 1, 1)	(0, 1, 2, 1, 3, 1, 4, 1, 1, 2, 0)	19	$x_2^3 x_4^2 x_6^4 x_8^4 x_9^4 x_{10} x_{11}$	1
(2, 5, 2, 0, 2)	(0, 4, 1, 1, 1, 2, 2, 1, 1, 0, 4)	20	$x_2 x_3^2 x_4 x_5^4 x_6 x_7 x_8^4 x_9^4 x_{10} x_{11}$	1
(2, 5, 1, 3, 0)	(0, 1, 3, 3, 1, 0, 1, 2, 1, 3, 1)	21	$x_2 x_4^2 x_5^3 x_6 x_7^4 x_8^4 x_{10}^2 x_{11}^4$	3
(2, 5, 1, 2, 1)	(0, 1, 1, 1, 1, 3, 2, 4, 3, 0, 1)	19	$x_3^4 x_4^4 x_5^4 x_6 x_9 x_{10} x_{11}^4$	1
(2, 5, 1, 1, 2)	(0, 1, 1, 1, 3, 1, 4, 1, 2, 0, 4)	19	$x_3^4 x_4^4 x_6^4 x_7 x_8^4 x_{10} x_{11}$	2
(2, 5, 1, 0, 3)	(0, 1, 4, 1, 1, 2, 4, 4, 1, 0, 1)	21	$x_2 x_3^2 x_4^2 x_5^3 x_7^2 x_8^2 x_9^4 x_{10} x_{11}^4$	-1 · 2 <sup>2</sup>

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(2, 5, 0, 4, 0)	(3, 1, 0, 1, 3, 3, 1, 3, 1, 1, 0)	24	$x_4^2 x_5^3 x_6^3 x_7^4 x_8^3 x_9^4 x_{10}^4 x_{11}$	1
(2, 5, 0, 3, 1)	(0, 1, 1, 4, 3, 3, 1, 0, 1, 3, 1)	21	$x_3^2 x_5^2 x_6^2 x_7^4 x_8^4 x_9^4 x_{10}^2 x_{11}^4$	-1
(2, 5, 0, 2, 2)	(0, 1, 1, 0, 4, 3, 4, 3, 1, 1, 1)	20	$x_3^3 x_4 x_5 x_6 x_7 x_8 x_9^4 x_{10}^4 x_{11}^4$	1
(2, 5, 0, 1, 3)	(0, 1, 1, 0, 1, 1, 4, 1, 3, 4, 4)	20	$x_1 x_3 x_4 x_5^4 x_6^3 x_7^2 x_8^4 x_{10}^2 x_{11}^2$	-1
(2, 5, 0, 0, 4)	(4, 1, 4, 0, 1, 1, 1, 1, 0, 4, 4)	24	$x_2 x_3^2 x_4 x_5^3 x_6^3 x_7^3 x_8^4 x_9 x_{10}^3 x_{11}^3$	-1
(2, 4, 4, 1, 0)	(1, 0, 2, 2, 2, 1, 1, 3, 2, 0, 1)	19	$x_3 x_4^3 x_5^3 x_6^2 x_7^3 x_9^3 x_{10} x_{11}^3$	-1 · 2
(2, 4, 4, 0, 1)	(0, 2, 1, 1, 4, 2, 1, 1, 2, 2, 0)	20	$x_3 x_4^3 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}$	2 <sup>2</sup>
(2, 4, 3, 2, 0)	(0, 1, 2, 1, 3, 2, 3, 1, 2, 1, 0)	18	$x_1 x_2^2 x_3 x_4^2 x_6^2 x_7 x_8^3 x_9^2 x_{10}^3 x_{11}$	-1
(2, 4, 3, 1, 1)	(0, 1, 1, 4, 2, 0, 1, 3, 2, 1, 2)	17	$x_1 x_3^3 x_5^2 x_6 x_7^3 x_9^2 x_{10}^3 x_{11}^2$	1
(2, 4, 3, 0, 2)	(0, 1, 0, 2, 4, 2, 2, 1, 1, 1, 4)	18	$x_1 x_3 x_4 x_5 x_6^2 x_7^3 x_8^3 x_9^3 x_{10} x_{11}$	1
(2, 4, 2, 3, 0)	(0, 1, 1, 1, 0, 1, 2, 2, 3, 3, 3)	18	$x_3^3 x_4^3 x_5 x_6^3 x_7 x_8 x_9^2 x_{10}^2 x_{11}^2$	-1
(2, 4, 2, 2, 1)	(0, 1, 1, 3, 4, 0, 2, 2, 1, 3, 1)	16	$x_2^2 x_3^3 x_4 x_6 x_7 x_8 x_9^3 x_{10} x_{11}^3$	-1 · 3
(2, 4, 2, 1, 2)	(0, 1, 0, 1, 1, 2, 4, 3, 1, 4, 2)	16	$x_1 x_2 x_3 x_4^3 x_5^3 x_6 x_7 x_9^3 x_{10} x_{11}$	-1 · 2 <sup>2</sup>
(2, 4, 2, 0, 3)	(0, 2, 1, 1, 4, 4, 1, 1, 2, 0, 4)	17	$x_1 x_4^2 x_5^2 x_6^2 x_7^3 x_8^3 x_9 x_{10} x_{11}^2$	1
(2, 4, 1, 3, 1)	(0, 1, 2, 1, 4, 1, 3, 0, 3, 1, 3)	17	$x_1 x_2 x_4^3 x_6^3 x_7 x_8 x_9^2 x_{10}^3 x_{11}^2$	-1
(2, 4, 1, 2, 2)	(0, 1, 1, 4, 1, 2, 4, 0, 1, 3, 3)	15	$x_1 x_3^3 x_4 x_5^3 x_7 x_8 x_9^3 x_{10} x_{11}$	-1 · 2
(2, 4, 1, 1, 3)	(0, 1, 1, 0, 4, 3, 4, 1, 4, 2, 1)	17	$x_2^2 x_3^3 x_4 x_5^2 x_7 x_8^3 x_9^2 x_{11}^3$	2
(2, 4, 1, 0, 4)	(1, 0, 4, 4, 0, 1, 2, 1, 4, 1, 4)	20	$x_3 x_4^3 x_5 x_6^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	-1 · 2 · 3
(2, 4, 0, 3, 2)	(0, 1, 1, 1, 1, 3, 0, 3, 4, 4, 3)	18	$x_2 x_3^2 x_4^3 x_5^3 x_6^2 x_7 x_8^2 x_9 x_{10} x_{11}^2$	-1 · 2
(2, 4, 0, 2, 3)	(0, 1, 3, 1, 4, 3, 1, 0, 4, 4, 1)	18	$x_3 x_4^3 x_5^2 x_6 x_7^3 x_8 x_9^2 x_{10}^2 x_{11}^3$	2
(2, 3, 3, 3, 0)	(0, 2, 1, 1, 0, 2, 3, 3, 1, 3, 2)	17	$x_2 x_3 x_4^2 x_5 x_6^2 x_7^2 x_8^2 x_9^2 x_{10}^2 x_{11}^2$ $x_1 x_3 x_4^2 x_5^2 x_6^2 x_7^2 x_8^2 x_9^2 x_{10}^2 x_{11}^2$	5 11
(2, 3, 3, 2, 1)	(0, 1, 1, 2, 2, 2, 0, 4, 1, 3, 3)	15	$x_1 x_2 x_3^2 x_4^2 x_5^2 x_6^2 x_7 x_9^2 x_{10} x_{11}$	-1
(2, 3, 3, 1, 2)	(0, 1, 0, 2, 1, 3, 4, 1, 2, 4, 2)	14	$x_1 x_3 x_4^2 x_5^2 x_7 x_8^2 x_9^2 x_{10} x_{11}^2$	2
(2, 3, 2, 2, 2)	(0, 1, 0, 4, 2, 2, 4, 1, 3, 1, 3)	14	$x_1 x_2^2 x_3 x_4 x_5 x_6 x_7 x_8^2 x_9 x_{10}^2 x_{11}$	-1
(2, 3, 2, 1, 3)	(0, 1, 1, 0, 2, 4, 2, 4, 4, 3, 1)	15	$x_2^2 x_3^2 x_4 x_5 x_6^2 x_7 x_8^2 x_9^2 x_{11}^2$	1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(1, 10, 0, 0, 0)	(1, 0, 1, 1, 1, 1, 1, 1, 1, 1)	52	$x_1 x_3^2 x_4^3 x_5^4 x_6^9 x_7^7 x_8^8 x_9^9 x_{10}^9 x_{11}^9$	1
(1, 9, 1, 0, 0)	(1, 1, 1, 1, 2, 1, 1, 1, 1, 0, 1)	44	$x_1^2 x_2^2 x_3^3 x_4^6 x_5^7 x_6^8 x_7^8 x_8^8 x_{11}^8$	-1
(1, 9, 0, 1, 0)	(1, 1, 1, 3, 1, 1, 1, 0, 1, 1, 1)	44	$x_1 x_2^3 x_3^4 x_5^6 x_6^6 x_7^8 x_8^8 x_{10}^8 x_{11}^8$	-1
(1, 9, 0, 0, 1)	(4, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1)	44	$x_2^2 x_3^2 x_4^3 x_6^6 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8$	-1
(1, 8, 2, 0, 0)	(2, 1, 0, 1, 1, 1, 1, 1, 1, 2, 1)	37	$x_1 x_2 x_4^2 x_5^4 x_6^7 x_7^8 x_8^7 x_9^7 x_{10}^7 x_{11}^7$	1
(1, 8, 1, 1, 0)	(1, 3, 1, 2, 1, 1, 1, 1, 1, 1, 0)	36	$x_1 x_3^3 x_5^5 x_6^7 x_8^6 x_9^7 x_{10}^7$	1
(1, 8, 1, 0, 1)	(1, 1, 4, 1, 1, 2, 1, 1, 1, 1, 0)	36	$x_1 x_2^3 x_4^4 x_5^7 x_8^7 x_9^7 x_{10}^7$	1
(1, 8, 0, 2, 0)	(1, 0, 1, 3, 1, 1, 1, 1, 1, 3, 1, 1)	37	$x_1 x_3^2 x_4 x_5^5 x_6^6 x_7^8 x_8^7 x_9 x_{10}^7 x_{11}^7$	-1
(1, 8, 0, 1, 1)	(1, 1, 1, 3, 0, 1, 1, 1, 4, 1, 1)	35	$x_1 x_2^2 x_3^5 x_6^6 x_7^8 x_{10}^7 x_{11}^7$	1
(1, 8, 0, 0, 2)	(1, 4, 1, 1, 0, 1, 1, 4, 1, 1, 1)	37	$x_1^3 x_2 x_3^4 x_4^3 x_6^4 x_8 x_9^7 x_{10}^7 x_{11}^7$	-1
(1, 7, 3, 0, 0)	(1, 1, 2, 1, 1, 1, 2, 1, 1, 2, 0)	32	$x_2 x_3^2 x_4^3 x_5^6 x_6^6 x_8^6 x_9^6 x_{10}^2$	2
(1, 7, 2, 1, 0)	(3, 1, 2, 1, 1, 1, 1, 0, 1, 1, 2)	30	$x_2 x_4^2 x_5^3 x_6^5 x_7^6 x_8^6 x_9^6 x_{10} x_{11}$	-1
(1, 7, 2, 0, 1)	(1, 1, 0, 1, 1, 2, 2, 1, 1, 4, 1)	29	$x_2 x_4^6 x_5^3 x_6 x_7 x_8^5 x_9^6 x_{11}^6$	1
(1, 7, 1, 2, 0)	(1, 1, 1, 1, 1, 3, 0, 1, 2, 1, 3)	29	$x_2 x_3^2 x_4^6 x_5^6 x_6 x_8^6 x_{10}^6 x_{11}$	2
(1, 7, 1, 1, 1)	(1, 2, 4, 0, 1, 1, 3, 1, 1, 1, 1)	29	$x_1 x_5^2 x_6^4 x_8^5 x_9^5 x_{10}^6 x_{11}^6$	-1
(1, 7, 1, 0, 2)	(1, 0, 1, 1, 1, 4, 1, 1, 2, 4, 1)	30	$x_3^2 x_4^3 x_5^5 x_6 x_7^6 x_8^6 x_{10} x_{11}^6$	3
(1, 7, 0, 3, 0)	(1, 1, 1, 1, 3, 1, 3, 3, 0, 1, 1)	32	$x_1 x_2 x_3^3 x_4^5 x_5^2 x_6^6 x_8^2 x_{10}^6 x_{11}^6$	3
(1, 7, 0, 2, 1)	(4, 1, 1, 3, 1, 1, 1, 1, 0, 1, 3)	30	$x_2 x_3^3 x_4 x_5^4 x_6^4 x_7^5 x_8^5 x_{10}^6 x_{11}$	1
(1, 7, 0, 1, 2)	(1, 0, 3, 1, 1, 1, 1, 1, 4, 4, 1)	30	$x_4^2 x_5^4 x_6^4 x_7^6 x_8^6 x_9 x_{10} x_{11}^6$	-1
(1, 7, 0, 0, 3)	(1, 4, 1, 1, 0, 1, 1, 4, 1, 4, 1)	32	$x_1 x_2 x_3^3 x_4^5 x_6^6 x_8^2 x_9^6 x_{10}^2 x_{11}^6$	1
(1, 6, 4, 0, 0)	(1, 2, 0, 2, 1, 1, 1, 1, 1, 2, 2)	29	$x_1 x_4^3 x_5^2 x_6^2 x_7^5 x_8^5 x_9^5 x_{10}^3 x_{11}^3$	1
(1, 6, 3, 1, 0)	(2, 1, 1, 1, 2, 1, 1, 2, 0, 1, 3)	25	$x_1 x_3 x_4^5 x_5^2 x_6^4 x_7^5 x_8^5 x_{10}^5$	-1 · 2
(1, 6, 3, 0, 1)	(1, 1, 2, 1, 1, 1, 1, 0, 2, 4, 2)	26	$x_1 x_2^2 x_4^4 x_5^5 x_6^5 x_7^5 x_9^2 x_{11}^2$	1
(1, 6, 2, 2, 0)	(2, 1, 0, 1, 1, 1, 3, 2, 1, 1, 3)	25	$x_2^2 x_4 x_5^4 x_6^5 x_7 x_8 x_9^5 x_{10}^5 x_{11}$	2
(1, 6, 2, 1, 1)	(1, 1, 1, 1, 1, 1, 3, 0, 2, 2, 4)	24	$x_1^2 x_2^2 x_3^3 x_4^5 x_5^5 x_6^5 x_9 x_{10}$	1
(1, 6, 2, 0, 2)	(1, 4, 4, 1, 1, 2, 1, 2, 1, 0, 1)	25	$x_2 x_3 x_4^3 x_5^4 x_6^5 x_7^5 x_8 x_9^4 x_{11}^5$	-1 · 2

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(1, 6, 1, 3, 0)	(3, 1, 0, 1, 3, 1, 2, 1, 1, 3, 1)	26	$x_4^3 x_5^2 x_6^4 x_8^5 x_9^5 x_{10}^2 x_{11}^5$	1
(1, 6, 1, 2, 1)	(1, 1, 1, 1, 2, 1, 3, 0, 1, 3, 4)	24	$x_2^2 x_3^5 x_4^5 x_6^5 x_7 x_9^5 x_{10}$	-1
(1, 6, 1, 1, 2)	(0, 4, 3, 4, 1, 1, 1, 1, 1, 2, 1)	24	$x_2 x_4 x_5 x_6 x_7^5 x_8^5 x_9^5 x_{11}^5$	2
(1, 6, 1, 0, 3)	(2, 4, 1, 1, 4, 1, 1, 0, 1, 1, 4)	25	$x_3 x_4^3 x_5^2 x_6^3 x_7^4 x_9^5 x_{10}^2 x_{11}^2$	-1
(1, 6, 0, 4, 0)	(3, 3, 3, 0, 1, 1, 1, 3, 1, 1, 1)	29	$x_1 x_2 x_3^2 x_5 x_6^2 x_7^4 x_8^3 x_9^5 x_{10}^5 x_{11}^5$	-1
(1, 6, 0, 3, 1)	(1, 1, 1, 3, 0, 1, 3, 4, 1, 3, 1)	26	$x_2^2 x_3^3 x_4^2 x_6^5 x_7^2 x_9^5 x_{10}^2 x_{11}^5$	$2^2 \cdot 3$
(1, 6, 0, 2, 2)	(1, 1, 0, 1, 1, 4, 4, 1, 3, 3, 1)	24	$x_2 x_4^4 x_5^5 x_6 x_7 x_8^5 x_9 x_{10} x_{11}^5$	2
(1, 6, 0, 1, 3)	(4, 0, 3, 4, 1, 1, 4, 1, 1, 1, 1)	26	$x_7^2 x_5 x_6^3 x_7^2 x_8^3 x_9^5 x_{10}^5 x_{11}^5$	-1
(1, 6, 0, 0, 4)	(4, 1, 1, 0, 1, 1, 1, 1, 4, 4, 4)	29	$x_1 x_2^2 x_3 x_5^3 x_6^5 x_7^5 x_8^5 x_9^3 x_{10}^3 x_{11}^3$	1
(1, 5, 5, 0, 0)	(2, 1, 2, 1, 2, 1, 2, 0, 1, 2, 1)	27	$x_3^3 x_4 x_5^3 x_6^4 x_7^4 x_9^4 x_{10}^4 x_{11}^4$	-1
(1, 5, 4, 1, 0)	(1, 2, 2, 1, 1, 0, 2, 1, 3, 1, 2)	24	$x_1 x_3^2 x_4^3 x_5^4 x_7^3 x_8^4 x_{10}^4 x_{11}^3$	$-1 \cdot 3$
(1, 5, 4, 0, 1)	(2, 1, 1, 2, 2, 1, 1, 1, 4, 2, 0)	24	$x_1^2 x_3 x_4^3 x_5^3 x_6^4 x_7^4 x_8^4 x_{10}^3$	1
(1, 5, 3, 2, 0)	(1, 1, 2, 1, 3, 3, 0, 2, 1, 1, 2)	22	$x_2^2 x_3^2 x_4^4 x_5 x_6 x_8^2 x_9^4 x_{10}^4 x_{11}^2$	$-1 \cdot 3$
(1, 5, 3, 1, 1)	(0, 4, 2, 1, 1, 1, 3, 1, 2, 1, 2)	21	$x_4 x_5^4 x_6^4 x_8^4 x_9^2 x_{10}^4 x_{11}^2$	$-1 \cdot 2$
(1, 5, 3, 0, 2)	(1, 1, 0, 1, 2, 4, 2, 4, 1, 2, 1)	22	$x_1 x_2 x_4^4 x_5^2 x_6 x_7^2 x_8 x_9^4 x_{10}^2 x_{11}^4$	2
(1, 5, 2, 3, 0)	(1, 1, 2, 1, 0, 3, 1, 2, 3, 3, 1)	22	$x_2^2 x_3 x_4^4 x_6^2 x_7^4 x_8 x_9^2 x_{10}^2 x_{11}^4$	$2^2 \cdot 3$
(1, 5, 2, 2, 1)	(1, 0, 1, 1, 2, 3, 1, 3, 1, 4, 2)	20	$x_3^4 x_4^4 x_5 x_6 x_7^4 x_8 x_9^4 x_{11}$	$-1 \cdot 3$
(1, 5, 2, 1, 2)	(1, 0, 1, 1, 1, 3, 4, 1, 2, 4, 2)	19	$x_3^3 x_4^4 x_5^4 x_7 x_8^4 x_9 x_{10} x_{11}$	-1
(1, 5, 2, 0, 3)	(1, 1, 0, 1, 2, 4, 4, 1, 1, 2, 4)	22	$x_1 x_2^2 x_4^4 x_5 x_6 x_7^2 x_8^4 x_9^4 x_{10} x_{11}^2$	$-1 \cdot 2^2$
(1, 5, 1, 4, 0)	(1, 1, 1, 3, 1, 3, 2, 3, 3, 1, 0)	24	$x_2 x_3^4 x_4^2 x_5^4 x_6^3 x_8^3 x_9^3 x_{10}^4$	$-1 \cdot 3$
(1, 5, 1, 3, 1)	(1, 0, 1, 2, 3, 1, 1, 4, 3, 3, 1)	20	$x_3^2 x_5^2 x_6^4 x_7^4 x_9^2 x_{10}^2 x_{11}^4$	$-1 \cdot 2$
(1, 5, 1, 2, 2)	(1, 0, 1, 3, 4, 1, 3, 4, 1, 1, 2)	20	$x_1^2 x_3^3 x_5 x_6^4 x_7 x_8 x_9^4 x_{10}^4$	$-1 \cdot 2$
(1, 5, 1, 1, 3)	(1, 0, 1, 4, 2, 4, 1, 1, 1, 4, 3)	21	$x_3^4 x_4^2 x_6^2 x_7^3 x_8^4 x_9^4 x_{10}^2$	$-1 \cdot 2$
(1, 5, 1, 0, 4)	(1, 1, 0, 4, 1, 1, 1, 2, 4, 4, 4)	24	$x_2^2 x_4^2 x_5^4 x_6^4 x_7^2 x_9^3 x_{10}^3 x_{11}^3$	1
(1, 5, 0, 4, 1)	(1, 1, 3, 1, 1, 3, 3, 1, 0, 4, 3)	24	$x_1 x_2 x_3^2 x_4^4 x_5^4 x_6^3 x_7^2 x_8^4 x_{11}^3$	$-1 \cdot 3$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(1, 5, 0, 3, 2)	(1, 1, 1, 0, 3, 3, 1, 4, 1, 3, 4)	22	$x_2^3 x_3^4 x_5 x_6^2 x_7^4 x_8 x_9^4 x_{10}^2 x_{11}$	$2^2$
(1, 5, 0, 2, 3)	(1, 1, 1, 4, 4, 3, 1, 3, 1, 0, 4)	22	$x_1 x_2 x_3^4 x_4^2 x_5^2 x_6 x_7^4 x_8 x_9^4 x_{11}^2$	$-1 \cdot 2 \cdot 3$
(1, 5, 0, 1, 4)	(4, 1, 1, 1, 1, 4, 0, 1, 3, 4, 4)	24	$x_1 x_2 x_3 x_4^4 x_5^4 x_6^3 x_8^4 x_{10}^3 x_{11}^3$	-1
(1, 5, 0, 0, 5)	(4, 4, 0, 4, 4, 1, 4, 1, 1, 1, 1)	27	$x_2 x_4^2 x_5^3 x_6^2 x_7^4 x_8^3 x_9^4 x_{10}^4 x_{11}^4$	1
(1, 4, 4, 2, 0)	(1, 0, 1, 2, 3, 1, 2, 3, 1, 2, 2)	21	$x_3 x_4^3 x_5 x_6^3 x_7^3 x_8 x_9^3 x_{10}^3 x_{11}^3$	$-1 \cdot 3^2$
(1, 4, 4, 1, 1)	(1, 1, 0, 1, 2, 1, 2, 2, 4, 3, 2)	20	$x_2^2 x_4^3 x_5^3 x_6^3 x_7^3 x_8^3 x_{11}^3$	$-1 \cdot 2^2$
(1, 4, 4, 0, 2)	(1, 0, 2, 4, 2, 1, 1, 2, 4, 2, 1)	20	$x_4 x_3^3 x_6^3 x_7^3 x_8^3 x_9 x_{10}^3 x_{11}^3$	$2^4$
(1, 4, 3, 3, 0)	(1, 1, 1, 2, 1, 2, 3, 3, 3, 2, 0)	20	$x_2^2 x_3^3 x_4^2 x_5^3 x_6^2 x_7^2 x_8^2 x_9^2 x_{10}^2$	$-1 \cdot 2$
(1, 4, 3, 2, 1)	(1, 0, 1, 1, 3, 2, 1, 3, 2, 2, 4)	18	$x_1^2 x_3^2 x_4^3 x_5 x_6^2 x_7^3 x_8 x_9^2 x_{10}^2$	$-1 \cdot 3$
(1, 4, 3, 1, 2)	(0, 2, 1, 3, 2, 1, 4, 1, 1, 2, 4)	18	$x_2^2 x_3 x_5^2 x_6^3 x_7 x_8^3 x_9^3 x_{10}^2 x_{11}$	1
(1, 4, 3, 0, 3)	(1, 0, 2, 4, 1, 1, 1, 4, 2, 2, 4)	20	$x_3 x_4^2 x_5^3 x_6^3 x_7^3 x_8^2 x_9^2 x_{10}^2 x_{11}^2$	$-1 \cdot 3$
(1, 4, 2, 3, 1)	(0, 3, 1, 2, 3, 1, 2, 1, 3, 1, 4)	18	$x_3^3 x_4 x_5^2 x_6^3 x_7 x_8^3 x_9^2 x_{10}^3$	$3^2$
(1, 4, 2, 2, 2)	(0, 1, 3, 2, 1, 3, 2, 1, 1, 4, 4)	17	$x_2^3 x_3 x_4 x_5^3 x_6 x_7 x_8^2 x_9^3 x_{10} x_{11}$	$2^2$
(1, 4, 2, 1, 3)	(0, 1, 2, 4, 4, 1, 2, 1, 4, 3, 1)	18	$x_2 x_3 x_4^2 x_5^2 x_6^3 x_7 x_8^3 x_9^2 x_{11}^3$	$2^3$
(1, 4, 2, 0, 4)	(1, 1, 1, 4, 1, 4, 2, 2, 4, 4, 0)	21	$x_2 x_3^3 x_4^3 x_5^3 x_6^3 x_7 x_8 x_9^3 x_{10}^3$	$-1 \cdot 2^2$
(1, 4, 1, 3, 2)	(0, 1, 3, 2, 4, 1, 3, 3, 1, 4, 1)	18	$x_2^2 x_3^2 x_5 x_6^3 x_7^2 x_8^2 x_9^2 x_{10} x_{11}^3$	2
(1, 4, 1, 2, 3)	(0, 3, 4, 1, 4, 2, 1, 1, 1, 4, 3)	18	$x_2 x_4^3 x_5^2 x_7^3 x_8^3 x_9^3 x_{10}^2 x_{11}$	-1
(1, 4, 1, 1, 4)	(1, 0, 1, 4, 2, 1, 4, 1, 4, 4, 3)	19	$x_3^2 x_4^2 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3$	1
(1, 4, 0, 3, 3)	(1, 1, 4, 0, 3, 1, 3, 1, 4, 4, 3)	19	$x_2^2 x_3^2 x_5 x_6^3 x_7^2 x_8^3 x_9^2 x_{10}^2 x_{11}^2$	$2^2$
(1, 3, 3, 3, 1)	(0, 1, 1, 2, 2, 2, 3, 4, 3, 1, 3)	17	$x_2 x_3^2 x_4^2 x_5^2 x_6^2 x_7^2 x_9^2 x_{10}^2 x_{11}^2$	$-1 \cdot 2$
(1, 3, 3, 2, 2)	(0, 1, 1, 2, 2, 4, 3, 1, 3, 4, 2)	16	$x_2^2 x_3^2 x_4^2 x_5^2 x_6 x_7 x_8^2 x_9 x_{10} x_{11}^2$	$2^2$
(1, 3, 2, 2, 3)	(1, 1, 2, 4, 4, 4, 2, 1, 0, 3, 3)	15	$x_1 x_2^2 x_3 x_4^2 x_5^2 x_6^2 x_7 x_8^2 x_{10} x_{11}$	1
(0, 11, 0, 0, 0)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	64	$x_1^2 x_2^2 x_3^3 x_4^4 x_5^6 x_6^9 x_8^8 x_9^{10} x_{10}^{10} x_{11}^{10}$	1
(0, 10, 1, 0, 0)	(1, 1, 1, 1, 1, 1, 1, 2, 1, 1, 1)	55	$x_1 x_2^3 x_3^3 x_4^5 x_5^7 x_6^9 x_9^9 x_{10}^9 x_{11}^9$	3
(0, 10, 0, 1, 0)	(1, 1, 1, 1, 1, 1, 1, 3, 1, 1, 1)	55	$x_1 x_2^3 x_3^4 x_4^4 x_5^7 x_6^9 x_9^9 x_{10}^9 x_{11}^9$	2
(0, 10, 0, 0, 1)	(1, 1, 1, 1, 1, 1, 1, 4, 1, 1, 1)	54	$x_1 x_2^2 x_3^3 x_4^5 x_5^7 x_6^9 x_9^9 x_{10}^9 x_{11}^9$	1



$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(0, 9, 2, 0, 0)	(2, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1)	46	$x_2^2 x_3^2 x_4 x_5^4 x_6^7 x_8^6 x_9^8 x_{10}^8 x_{11}^8$	1
(0, 9, 1, 1, 0)	(1, 1, 3, 1, 1, 1, 1, 1, 2, 1, 1)	45	$x_1 x_2^3 x_4^4 x_5^5 x_6^8 x_8^8 x_{10}^8 x_{11}^8$	2
(0, 9, 1, 0, 1)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 4, 2)	44	$x_1 x_2^2 x_3^4 x_4^5 x_5^8 x_6^8 x_8^8 x_9^8$	2
(0, 9, 0, 2, 0)	(1, 1, 1, 3, 1, 1, 1, 1, 3, 1, 1)	45	$x_1 x_2^2 x_3^3 x_4 x_5^5 x_6^8 x_8 x_9^8 x_{10}^8 x_{11}^8$	-1
(0, 9, 0, 1, 1)	(1, 1, 1, 1, 4, 1, 1, 1, 1, 1, 3)	45	$x_1^2 x_2^2 x_3^4 x_4^6 x_5^7 x_8^8 x_9^8 x_{10}^8$	-1
(0, 9, 0, 0, 2)	(4, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1)	46	$x_2 x_3^2 x_4^3 x_5^3 x_6^7 x_8^8 x_9^8 x_{10}^8 x_{11}^8$	-1
(0, 8, 3, 0, 0)	(1, 2, 2, 1, 1, 1, 1, 2, 1, 1, 1)	40	$x_1 x_3^2 x_4^3 x_5^4 x_6^7 x_8^2 x_9^7 x_{10}^7 x_{11}^7$	-1 · 3
(0, 8, 2, 1, 0)	(2, 1, 3, 1, 1, 1, 1, 1, 1, 2, 1)	37	$x_2 x_4^4 x_5^4 x_6^6 x_8^7 x_9^7 x_{10}^7 x_{11}^7$	1
(0, 8, 2, 0, 1)	(2, 1, 1, 2, 1, 1, 4, 1, 1, 1, 1)	38	$x_2^2 x_4 x_5^3 x_6^6 x_8^6 x_9^6 x_{10}^7 x_{11}^7$	-1
(0, 8, 1, 2, 0)	(1, 1, 2, 1, 3, 3, 1, 1, 1, 1, 1)	38	$x_1^2 x_2^2 x_4^7 x_6 x_8^5 x_9^7 x_{10}^7 x_{11}^7$	-1
(0, 8, 1, 1, 1)	(3, 1, 1, 1, 4, 1, 1, 1, 1, 2, 1)	37	$x_2 x_3^3 x_4^6 x_6^6 x_8^7 x_9^7 x_{11}^7$	1
(0, 8, 1, 0, 2)	(1, 1, 1, 1, 1, 4, 4, 1, 2, 1, 1)	38	$x_1 x_2 x_3^3 x_4^4 x_5^7 x_6 x_8^7 x_{10}^7 x_{11}^7$	2
(0, 8, 0, 3, 0)	(3, 1, 3, 1, 1, 1, 1, 1, 3, 1, 1)	40	$x_2 x_3^2 x_4^3 x_5^5 x_6^6 x_8^7 x_9^2 x_{10}^7 x_{11}^7$	1
(0, 8, 0, 2, 1)	(4, 1, 1, 3, 1, 1, 1, 1, 1, 3, 1)	38	$x_2^2 x_3^3 x_4 x_5^5 x_6^5 x_8^7 x_9^7 x_{10}^7 x_{11}^7$	1
(0, 8, 0, 1, 2)	(4, 1, 1, 1, 3, 1, 1, 1, 1, 4, 1)	38	$x_1 x_2^2 x_3^2 x_4^5 x_6^6 x_8^7 x_9^7 x_{10}^7 x_{11}^7$	-1
(0, 8, 0, 0, 3)	(1, 1, 1, 1, 4, 4, 1, 1, 1, 1, 4)	39	$x_1 x_2^2 x_3^3 x_4^6 x_5^2 x_6^2 x_8^7 x_9^7 x_{10}^7 x_{11}^2$	2
(0, 7, 4, 0, 0)	(1, 1, 1, 1, 2, 1, 2, 2, 2, 1, 1)	35	$x_2 x_3^2 x_4^5 x_5^3 x_6^6 x_8^3 x_9^3 x_{10}^6 x_{11}^6$	3 <sup>2</sup>
(0, 7, 3, 1, 0)	(3, 1, 1, 1, 1, 1, 2, 1, 1, 2, 2)	33	$x_3^2 x_4^3 x_5^4 x_6^6 x_7^2 x_8^6 x_9^6 x_{10}^2 x_{11}^2$	3
(0, 7, 3, 0, 1)	(4, 2, 1, 1, 2, 1, 2, 1, 1, 1, 1)	33	$x_3 x_4 x_5^2 x_6^4 x_7^2 x_8^5 x_9^6 x_{10}^6 x_{11}^6$	-1 · 2
(0, 7, 2, 2, 0)	(1, 1, 1, 1, 1, 1, 2, 1, 3, 3, 2)	32	$x_2^3 x_3^2 x_4^5 x_5^6 x_6^6 x_7 x_8^6 x_9 x_{10} x_{11}$	-1 · 2
(0, 7, 2, 1, 1)	(1, 3, 2, 4, 2, 1, 1, 1, 1, 1, 1)	31	$x_1 x_3 x_5 x_6^2 x_7^3 x_8^5 x_9^6 x_{10}^6 x_{11}^6$	-1
(0, 7, 2, 0, 2)	(1, 1, 4, 1, 1, 1, 2, 2, 1, 1, 4)	32	$x_2^2 x_3 x_4^3 x_5^6 x_6^6 x_7 x_8 x_9^5 x_{10}^6 x_{11}$	2
(0, 7, 1, 3, 0)	(1, 1, 1, 2, 3, 1, 1, 1, 3, 3, 1)	33	$x_2 x_3^4 x_5^2 x_6^4 x_7^6 x_8^6 x_9^2 x_{10}^2 x_{11}^6$	2
(0, 7, 1, 2, 1)	(3, 1, 1, 1, 1, 3, 2, 4, 1, 1, 1)	31	$x_1 x_2 x_3^2 x_4^2 x_5^6 x_6^6 x_9^6 x_{10}^6 x_{11}^6$	1
(0, 7, 1, 1, 2)	(1, 1, 1, 1, 3, 4, 1, 2, 4, 1, 1)	30	$x_2 x_3^3 x_4^6 x_6^6 x_7 x_9 x_{10}^6 x_{11}^6$	1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(0, 7, 1, 0, 3)	(4, 1, 2, 1, 4, 4, 1, 1, 1, 1, 1)	33	$x_2x_4^2x_5^2x_6^2x_7^4x_8^4x_9^6x_{10}^6x_{11}^6$	-1
(0, 7, 0, 4, 0)	(1, 1, 3, 1, 3, 3, 1, 1, 1, 1, 3, 1)	36	$x_1x_2^2x_3x_4^5x_5^3x_6^3x_8^6x_9^6x_{10}^3x_{11}^6$	2
(0, 7, 0, 3, 1)	(1, 3, 3, 1, 1, 3, 4, 1, 1, 1, 1, 1)	32	$x_3x_4x_5^5x_6^2x_8^5x_9^6x_{10}^6x_{11}^6$	1
(0, 7, 0, 2, 2)	(1, 3, 4, 4, 1, 3, 1, 1, 1, 1, 1, 1)	32	$x_1x_4x_5^4x_6x_7^3x_8^5x_9^5x_{10}^6x_{11}^6$	1
(0, 7, 0, 1, 3)	(4, 1, 4, 4, 1, 1, 1, 1, 4, 1, 3, 1)	33	$x_2x_3^2x_4^3x_5^3x_6^4x_7^6x_8^2x_9^6x_{11}^6$	-1
(0, 7, 0, 0, 4)	(4, 4, 1, 1, 1, 1, 4, 4, 1, 1, 1, 1)	36	$x_1x_2^3x_3x_4^2x_5^6x_6^3x_8^6x_9^6x_{10}^6x_{11}^6$	-1
(0, 6, 5, 0, 0)	(2, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2)	34	$x_2x_3^3x_4^3x_5^4x_6^5x_8^4x_9^5x_{10}^5x_{11}^4$	$-1 \cdot 2 \cdot 5$
(0, 6, 4, 1, 0)	(2, 1, 1, 2, 2, 3, 1, 2, 1, 1, 1)	30	$x_1x_3^2x_4x_5^3x_7^5x_8^3x_9^5x_{10}^5x_{11}^5$	1
(0, 6, 4, 0, 1)	(2, 1, 2, 4, 1, 1, 1, 2, 2, 1, 1)	30	$x_2x_3^3x_5^3x_6^2x_7^5x_8^3x_9^3x_{10}^5x_{11}^5$	1
(0, 6, 3, 2, 0)	(2, 1, 1, 2, 1, 3, 1, 3, 1, 2, 1)	28	$x_2x_3x_4^2x_5^5x_6x_7^5x_8x_9^5x_{10}^2x_{11}^5$	2
(0, 6, 3, 1, 1)	(1, 3, 1, 2, 1, 4, 1, 2, 1, 2, 1)	27	$x_1x_3^2x_5^5x_7^2x_8^5x_9^2x_{10}^5x_{11}^5$	1
(0, 6, 3, 0, 2)	(1, 1, 2, 4, 2, 1, 1, 1, 1, 2, 4)	27	$x_2x_3^2x_4x_5^2x_6^4x_7^4x_8^5x_9^5x_{10}^2x_{11}$	-1
(0, 6, 2, 3, 0)	(1, 3, 3, 1, 3, 1, 1, 2, 2, 1, 1)	28	$x_2x_3x_4^3x_5^2x_6^4x_7^5x_8x_9x_{10}^5x_{11}^5$	1
(0, 6, 2, 2, 1)	(1, 1, 2, 3, 1, 1, 4, 3, 1, 1, 2)	25	$x_2x_3x_4x_5^5x_6^5x_8x_9^5x_{10}^5x_{11}$	$-1 \cdot 2$
(0, 6, 2, 1, 2)	(1, 1, 2, 1, 3, 1, 4, 1, 2, 1, 4)	26	$x_1x_2x_3x_4^5x_5^5x_7x_8^5x_9x_{10}^5x_{11}$	1
(0, 6, 2, 0, 3)	(2, 1, 1, 4, 1, 2, 1, 4, 4, 1, 1)	28	$x_1x_3x_4x_5^5x_6x_7^5x_8^2x_9^2x_{10}^5x_{11}^5$	$-1 \cdot 2$
(0, 6, 1, 4, 0)	(2, 1, 3, 3, 1, 1, 1, 1, 1, 3, 3)	29	$x_2x_4x_5^3x_6^3x_7^5x_8^5x_9^5x_{10}^3x_{11}^3$	-1
(0, 6, 1, 3, 1)	(4, 3, 1, 1, 1, 3, 2, 1, 1, 1, 3)	27	$x_3x_4^3x_5^5x_6^2x_8^4x_9^5x_{10}^2x_{11}^2$	$-1 \cdot 3$
(0, 6, 1, 2, 2)	(1, 3, 4, 1, 1, 2, 1, 4, 1, 3, 1)	26	$x_4^4x_5^5x_7^5x_8x_9^5x_{10}x_{11}^5$	1
(0, 6, 1, 1, 3)	(1, 1, 1, 3, 1, 2, 4, 1, 1, 4, 4)	27	$x_2x_3^5x_5^5x_7^2x_8^5x_9^5x_{10}^2x_{11}^2$	$-1 \cdot 2^2$
(0, 6, 1, 0, 4)	(1, 4, 1, 2, 4, 4, 1, 1, 1, 4, 1)	30	$x_2x_3^2x_5^2x_6^3x_7^4x_8^5x_9^5x_{10}^3x_{11}^5$	1
(0, 6, 0, 5, 0)	(3, 1, 1, 3, 3, 1, 1, 1, 3, 3, 1)	34	$x_2x_3^3x_4^3x_5^4x_6^5x_8^4x_9^4x_{10}^4x_{11}^5$	3
(0, 6, 0, 4, 1)	(3, 1, 1, 1, 1, 1, 3, 4, 3, 1, 3)	30	$x_3^2x_4^4x_5^5x_6^5x_7^3x_9^3x_{10}^3x_{11}^3$	2
(0, 6, 0, 3, 2)	(1, 1, 1, 1, 3, 4, 3, 1, 1, 4, 3)	28	$x_2x_3^4x_4^5x_5^2x_6x_7^2x_8^5x_9^5x_{10}x_{11}^2$	$-1 \cdot 2^2 \cdot 3$
(0, 6, 0, 2, 3)	(1, 4, 3, 4, 4, 1, 1, 1, 3, 1, 1)	28	$x_2x_3x_4^2x_5^2x_6^2x_7^4x_8^5x_9x_{10}^5x_{11}^5$	1
(0, 6, 0, 1, 4)	(1, 1, 4, 1, 1, 1, 4, 1, 4, 3, 4)	29	$x_2x_3x_4^3x_5^5x_6^5x_7^3x_8^5x_9^3x_{11}^3$	-1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(0, 6, 0, 0, 5)	(4, 4, 4, 4, 1, 1, 1, 1, 4, 1, 1)	34	$x_2 x_3^3 x_4^4 x_5^2 x_6^5 x_8^5 x_9^4 x_{10}^5 x_{11}^5$	1
(0, 5, 5, 1, 0)	(1, 1, 2, 3, 2, 2, 2, 2, 1, 1, 1)	29	$x_2^2 x_3 x_5^2 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4$	1
(0, 5, 5, 0, 1)	(1, 2, 4, 1, 2, 1, 2, 1, 2, 1, 2)	29	$x_4^2 x_5^3 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4$ $x_4^3 x_5^2 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4$	-1 · 2 · 5 -1 · 2 · 7
(0, 5, 4, 2, 0)	(3, 1, 2, 1, 3, 2, 2, 1, 1, 2, 1)	26	$x_2 x_3 x_4^2 x_5 x_6^3 x_7^3 x_8^4 x_9^4 x_{10}^3 x_{11}^4$	$2^3$
(0, 5, 4, 1, 1)	(2, 1, 1, 1, 1, 3, 2, 2, 4, 2, 1)	24	$x_1^2 x_3 x_4^4 x_5^4 x_7^3 x_8^3 x_{10}^3 x_{11}^4$	1
(0, 5, 4, 0, 2)	(1, 1, 4, 2, 1, 1, 2, 2, 4, 2, 1)	26	$x_1 x_2^2 x_3 x_4 x_5^3 x_6^4 x_7^3 x_8^3 x_9 x_{10}^3 x_{11}^4$	-1 · 2
(0, 5, 3, 3, 0)	(1, 2, 2, 1, 3, 3, 1, 3, 1, 2, 1)	24	$x_2 x_3^2 x_4^2 x_5 x_6^2 x_7^2 x_8^4 x_9^2 x_{10}^4 x_{11}^4$	2
(0, 5, 3, 2, 1)	(1, 2, 2, 4, 3, 1, 1, 3, 1, 2, 1)	23	$x_1 x_3^2 x_5 x_6^4 x_7^4 x_8 x_9^4 x_{10}^2 x_{11}^4$	2
(0, 5, 3, 1, 2)	(1, 1, 2, 4, 1, 4, 2, 2, 3, 1, 1)	23	$x_1 x_2^4 x_3 x_5^4 x_6 x_7^2 x_8^2 x_{10}^4 x_{11}^4$	1
(0, 5, 3, 0, 3)	(2, 4, 1, 2, 4, 2, 4, 1, 1, 1, 1)	25	$x_3^2 x_4^2 x_5^2 x_6^2 x_7^2 x_8^3 x_9^4 x_{10}^4 x_{11}^4$	2
(0, 5, 2, 4, 0)	(1, 1, 1, 2, 3, 3, 3, 3, 2, 1, 1)	26	$x_1 x_2 x_3^4 x_4 x_5 x_6^3 x_7^3 x_8^3 x_9 x_{10}^4 x_{11}^4$	1
(0, 5, 2, 3, 1)	(1, 1, 4, 2, 3, 3, 1, 2, 1, 1, 3)	23	$x_2^3 x_4 x_5^2 x_6^2 x_7^4 x_8 x_9^4 x_{10}^4 x_{11}^2$	-1 · 3
(0, 5, 2, 2, 2)	(1, 1, 3, 4, 2, 1, 2, 4, 1, 3, 1)	22	$x_2^4 x_3 x_4 x_5 x_6^4 x_7 x_8 x_9^4 x_{10} x_{11}^4$ $x_1 x_2^3 x_3 x_4 x_5 x_6^4 x_7 x_8 x_9^4 x_{10} x_{11}^4$	5 · 7 47
(0, 5, 2, 1, 3)	(1, 1, 1, 4, 2, 4, 4, 2, 1, 1, 3)	23	$x_1 x_2^2 x_3^4 x_4^2 x_5 x_6^2 x_7^2 x_8 x_9^4 x_{10}^4$	-1
(0, 5, 2, 0, 4)	(1, 1, 4, 2, 4, 2, 1, 4, 4, 1, 1)	25	$x_2 x_3^2 x_5^3 x_6 x_7^4 x_8^3 x_9^3 x_{10}^4 x_{11}^4$	3
(0, 5, 1, 4, 1)	(2, 3, 1, 3, 4, 3, 1, 1, 1, 3, 1)	25	$x_2 x_4^2 x_6^3 x_7^4 x_8^4 x_9^3 x_{10}^4 x_{11}^4$	-1
(0, 5, 1, 3, 2)	(1, 1, 1, 3, 2, 4, 1, 1, 3, 3, 4)	23	$x_2^3 x_3^4 x_4^2 x_6 x_7^4 x_8^4 x_9^2 x_{10}^2 x_{11}$	-1
(0, 5, 1, 2, 3)	(1, 3, 1, 2, 1, 1, 4, 3, 1, 4, 4)	22	$x_3^3 x_5^4 x_6^4 x_7 x_8 x_9^4 x_{10}^2 x_{11}^2$	-1
(0, 5, 1, 1, 4)	(2, 1, 1, 4, 1, 4, 3, 1, 4, 4, 1)	25	$x_3 x_4^3 x_5^4 x_6^3 x_8^4 x_9^3 x_{10}^4 x_{11}^4$	3
(0, 5, 1, 0, 5)	(1, 1, 2, 1, 4, 4, 1, 4, 4, 4, 1)	29	$x_2^2 x_4^3 x_5 x_6^3 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4$	1
(0, 5, 0, 4, 2)	(4, 3, 1, 3, 4, 1, 1, 1, 1, 3, 3)	25	$x_3 x_4^3 x_5 x_6^2 x_7^4 x_8^4 x_9^4 x_{10}^3 x_{11}^3$	2
(0, 5, 0, 3, 3)	(3, 1, 4, 1, 3, 4, 1, 1, 4, 3, 1)	25	$x_3 x_4^4 x_5^2 x_6^2 x_7^4 x_8^4 x_9^2 x_{10}^2 x_{11}^4$	-1 · 2
(0, 5, 0, 2, 4)	(1, 4, 3, 4, 1, 1, 1, 4, 4, 3, 1)	26	$x_2 x_4^3 x_5^4 x_6^3 x_7^4 x_8^3 x_9^3 x_{10}^4 x_{11}^4$	2
(0, 4, 4, 3, 0)	(3, 1, 2, 1, 3, 1, 2, 1, 3, 2, 2)	24	$x_2 x_3 x_4^3 x_5^2 x_6^3 x_7^3 x_8^3 x_9^2 x_{10}^3 x_{11}^3$	1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_5 \setminus \{(0, 0)\}, |S| = 11$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(0, 4, 4, 2, 1)	(1, 1, 1, 1, 2, 2, 2, 3, 4, 2, 3)	22	$x_2^2 x_3^3 x_4^4 x_5^3 x_6^3 x_7^3 x_8 x_9 x_{10} x_{11}$	1
(0, 4, 4, 1, 2)	(1, 2, 4, 2, 4, 1, 2, 1, 3, 1, 2)	22	$x_2^2 x_3 x_4^3 x_5 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3$	3
(0, 4, 4, 0, 3)	(2, 1, 2, 1, 4, 4, 2, 1, 2, 4, 1)	24	$\frac{x_3^3 x_4^3 x_5^2 x_6^2 x_7^3 x_8^3 x_9^3 x_{10}^2 x_{11}^3}{x_2 x_3^2 x_4^3 x_5^2 x_6^2 x_7^3 x_8^3 x_9^2 x_{10}^3 x_{11}^3}$	-1 · 19 -1 · 29
(0, 4, 3, 3, 1)	(1, 1, 2, 4, 1, 2, 1, 2, 3, 3, 3)	21	$x_2^3 x_3^2 x_5^3 x_6^2 x_7^3 x_8^2 x_9^2 x_{10}^2 x_{11}^2$	2
(0, 4, 3, 2, 2)	(1, 1, 1, 3, 1, 2, 3, 2, 4, 2, 4)	20	$x_1 x_2^3 x_3^3 x_4 x_5^3 x_6^2 x_7 x_8^2 x_9 x_{10}^2 x_{11}$	1
(0, 4, 3, 1, 3)	(1, 2, 4, 2, 1, 4, 3, 1, 1, 2, 4)	20	$x_2 x_3^2 x_4^2 x_5^3 x_6^2 x_8^3 x_9^3 x_{10}^2 x_{11}^2$	-1 · 2
(0, 4, 3, 0, 4)	(4, 1, 1, 4, 2, 2, 4, 4, 1, 1, 2)	24	$x_2 x_3^3 x_4^3 x_5^2 x_6^2 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^2$	-1 · 3
(0, 4, 2, 3, 2)	(1, 1, 2, 3, 1, 3, 3, 4, 2, 1, 4)	19	$x_2^3 x_3 x_4^2 x_5^3 x_6^2 x_7^2 x_8 x_9 x_{10}^3 x_{11}$	3
(0, 4, 2, 2, 3)	(1, 1, 3, 4, 2, 2, 1, 1, 3, 4, 4)	20	$x_1 x_2^3 x_3 x_4^2 x_5 x_6^3 x_7^3 x_8^3 x_9 x_{10}^2 x_{11}^2$	-1 · 2 <sup>2</sup>
(0, 4, 2, 1, 4)	(1, 2, 1, 4, 2, 1, 1, 4, 3, 4, 4)	22	$x_3^3 x_4^3 x_5 x_6^3 x_7^3 x_8^3 x_{10}^3 x_{11}^3$	-1
(0, 4, 1, 3, 3)	(1, 3, 1, 1, 3, 4, 4, 3, 1, 2, 4)	21	$x_2^2 x_3^3 x_4^3 x_5^2 x_6^2 x_7^2 x_8^3 x_9^3 x_{11}^2$	2 · 3
(0, 3, 3, 3, 2)	(1, 1, 3, 3, 2, 3, 4, 2, 4, 1, 2)	19	$x_1 x_2^2 x_3^2 x_4^2 x_5^2 x_6^2 x_7 x_8^2 x_9 x_{10}^2 x_{11}^2$	1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_2 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(12, 0)	(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)	131	$\frac{x_1^{10} x_2^{11} x_3^{11} x_4^{11} x_5^{11} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11}}{x_1^{11} x_2^{10} x_3^{11} x_4^{11} x_5^{11} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11}}$	2 <sup>4</sup> · 3 · 29 · 12953077208391719881 2 <sup>3</sup> · 3 · 277 · 1901 · 786640832519761
(11, 1)	(0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0)	80	$\frac{x_1 x_2^3 x_3^7 x_4^{10} x_6^{10} x_8^9 x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10}}{x_1 x_2^4 x_3^6 x_4^{10} x_6^{10} x_8^9 x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10}}$	-1 · 2 <sup>2</sup> · 3 · 17 -1 · 2 <sup>3</sup> · 3 · 19
(10, 2)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1)	71	$\frac{x_1^2 x_2^5 x_3^9 x_4^9 x_5^9 x_6^8 x_8^9 x_9^9 x_{10}^9 x_{11}^9}{x_1^3 x_2^4 x_3^9 x_4^9 x_5^9 x_6^8 x_8^9 x_9^9 x_{10}^9 x_{11}^9}$	-1 · 2 <sup>4</sup> · 3 · 293 -1 · 2 <sup>11</sup> · 11
(9, 3)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 1)	66	$\frac{x_2^4 x_3^8 x_4^8 x_5^8 x_6^2 x_7^8 x_8^8 x_9^8 x_{10}^2 x_{11}^2 x_{12}^2}{x_1 x_2^3 x_3^8 x_4^8 x_5^8 x_6^2 x_7^8 x_8^8 x_9^8 x_{10}^2 x_{11}^2 x_{12}^2}$	-1 · 2 <sup>4</sup> · 3 · 293 -1 · 2 <sup>5</sup> · 3 <sup>3</sup> · 43
(8, 4)	(0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 1, 1)	61	$\frac{x_1^3 x_2^7 x_3^7 x_4^3 x_5^7 x_6^7 x_7^7 x_8^3 x_9^3 x_{11}^3 x_{12}^3}{x_1^4 x_2^6 x_3^7 x_4^3 x_5^7 x_6^7 x_7^7 x_8^3 x_9^3 x_{11}^3 x_{12}^3}$	-1 · 2 <sup>4</sup> · 3 · 293 -1 · 2 <sup>2</sup> · 11 · 691
(7, 5)	(0, 0, 0, 0, 1, 0, 0, 0, 1, 1, 1, 1)	60	$\frac{x_1^4 x_2^6 x_3^6 x_4^6 x_5^4 x_6^6 x_7^6 x_8^4 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4}{x_1^5 x_2^5 x_3^6 x_4^6 x_5^4 x_6^6 x_7^6 x_8^4 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4}$	-1 · 2 · 34613 -1 · 2 <sup>5</sup> · 3 · 547
(6, 6)	(0, 0, 0, 1, 0, 0, 0, 1, 1, 1, 1, 1)	59	$\frac{x_1^4 x_2^5 x_3^5 x_4^5 x_5^5 x_6^5 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5 x_{12}^5}{x_1^5 x_2^4 x_3^5 x_4^5 x_5^5 x_6^5 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5 x_{12}^5}$	-1 · 2 <sup>2</sup> · 7 · 11 <sup>2</sup> 2 <sup>4</sup> · 31 · 491
(5, 7)	(0, 0, 0, 1, 0, 0, 1, 1, 1, 1, 1, 1) (1, 1, 1, 1, 0, 0, 1, 1, 1, 0, 0, 0)	62 62	$\frac{x_1^4 x_2^4 x_3^4 x_4^6 x_5^4 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6}{x_1^6 x_2^6 x_3^6 x_4^6 x_5^4 x_6^6 x_7^6 x_8^6 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4}$	-1 · 2 · 3 · 255259 2 <sup>2</sup> · 7 · 53 · 11443

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_2 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(4, 8)	(0, 0, 1, 0, 0, 1, 1, 1, 1, 1, 1, 1)	65	$\frac{x_1^2 x_2^3 x_3^5 x_4^3 x_5^3 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7}{x_1^3 x_2^3 x_3^4 x_4^3 x_5^3 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7}$	$2^8 \cdot 3203$ $-1 \cdot 2^5 \cdot 31 \cdot 293$
(3, 9)	(0, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1)	72	$\frac{x_2^2 x_3^4 x_4^2 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8}{x_2^2 x_3^5 x_4^2 x_5^7 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8}$	$2 \cdot 7 \cdot 17 \cdot 29 \cdot 179$ $2^3 \cdot 23 \cdot 7177$
(2, 10)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1)	79	$\frac{x_1 x_2^5 x_3 x_4^8 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9 x_{12}^9}{x_1 x_2^5 x_3 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9 x_{12}^9}$	$-1 \cdot 197 \cdot 78623$ $5 \cdot 61 \cdot 18223$
(1, 11)	(0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	90	$\frac{x_1^5 x_2^6 x_3^9 x_4^{10} x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10}}{x_2^4 x_3^7 x_4^9 x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10}}$	$-1 \cdot 2^3 \cdot 3^2 \cdot 281627$ $-1 \cdot 2^2 \cdot 7 \cdot 13 \cdot 73583$
(0, 12)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	101	$\frac{x_1^3 x_2^4 x_3^6 x_4^{11} x_5^{11} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11}}{x_1^3 x_2^4 x_3^7 x_4^{10} x_5^{11} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11}}$	$30062393$ $3^2 \cdot 431 \cdot 11489$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_3 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(12, 0, 0)	(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)	131	$\frac{x_1^{10} x_2^{11} x_3^{11} x_4^{11} x_5^{11} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11}}{x_1^{11} x_2^{10} x_3^{11} x_4^{11} x_5^{11} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11}}$	$2^4 \cdot 3 \cdot 29 \cdot 12953077208391719881$ $2^3 \cdot 3 \cdot 277 \cdot 1901 \cdot 786640832519761$
(11, 1, 0)	(0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0)	80	$\frac{x_1 x_2^3 x_3^6 x_4^{10} x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10}}{x_1 x_2^4 x_3^3 x_4^{10} x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10}}$	$-1 \cdot 5^2 \cdot 349$ $-1 \cdot 2 \cdot 3 \cdot 5 \cdot 467$
(10, 2, 0)	(0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0)	58	$x_1 x_2^3 x_3^5 x_4^7 x_5^6 x_6^9 x_7^8 x_8^9 x_9^8 x_{10}^9 x_{11}^9 x_{12}^9$	-1
(10, 1, 1)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 2)	70	$x_1^8 x_2^9 x_3^9 x_4^9 x_5^8 x_6^8 x_7^8 x_8^9 x_9^8 x_{10}^9 x_{11}^9$	$2 \cdot 3^2 \cdot 7$
(9, 3, 0)	(0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 1)	51	$x_1^2 x_2^4 x_3^6 x_4 x_5^5 x_6^8 x_7^8 x_8^7 x_9^8 x_{10}^8 x_{11}^8$	-1
(9, 2, 1)	(0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 2)	50	$x_1 x_2^3 x_3^5 x_4^8 x_5^8 x_6^8 x_7^8 x_8^7 x_9^8 x_{10}^8 x_{11}^8$	-2
(8, 4, 0)	(0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 1, 1)	48	$x_1 x_2^3 x_3^6 x_4^3 x_5^7 x_6^2 x_7^6 x_8^7 x_9^7 x_{10}^3 x_{11}^3 x_{12}^3$	2
(8, 3, 1)	(0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 2, 1)	45	$x_1 x_2^3 x_3^7 x_4^7 x_5^2 x_6^7 x_7^8 x_8^7 x_9^7 x_{10}^2 x_{11}^2$	$-1 \cdot 3$
(8, 2, 2)	(0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 2, 2)	43	$x_1^2 x_2^4 x_3^7 x_4 x_5^7 x_6^6 x_7^8 x_8^7 x_9^7 x_{10}^7 x_{11}^7$	$-1 \cdot 2^2$
(7, 5, 0)	(0, 0, 0, 1, 0, 0, 1, 0, 0, 1, 1, 1)	46	$x_1 x_2^3 x_3^5 x_4^3 x_5^6 x_6^4 x_7^6 x_8^6 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4$	$-1 \cdot 2 \cdot 3$
(7, 4, 1)	(0, 0, 0, 1, 0, 0, 1, 0, 0, 2, 1, 1)	41	$x_1^2 x_2^4 x_3^6 x_4^2 x_5^6 x_6^3 x_7^6 x_8^6 x_9^3 x_{10}^3 x_{11}^3$	-1
(7, 3, 2)	(0, 0, 0, 0, 1, 0, 1, 0, 0, 2, 1, 2)	40	$x_1 x_2^2 x_3^6 x_4^6 x_5^6 x_6^2 x_7^6 x_8^6 x_9^6 x_{10}^2 x_{11}^2$	$2^2 \cdot 5^2$
(6, 6, 0)	(0, 0, 1, 0, 0, 1, 0, 0, 1, 1, 1, 1)	45	$x_1 x_2^3 x_3 x_4^5 x_5^5 x_6^5 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5$	$2^2$
(6, 5, 1)	(0, 0, 0, 1, 0, 1, 0, 0, 1, 1, 1, 2)	41	$x_2^2 x_3^4 x_4^4 x_5^5 x_6^4 x_7^5 x_8^4 x_9^4 x_{10}^4 x_{11}^4$	$2 \cdot 3^2$
(6, 4, 2)	(0, 0, 0, 0, 1, 0, 1, 0, 2, 1, 2, 1)	38	$x_1^5 x_2^5 x_3^5 x_4^4 x_5^3 x_6^4 x_7^2 x_8^4 x_9^2 x_{10}^2 x_{11}^2 x_{12}^2$	1

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_3 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(6, 3, 3)	(0, 0, 0, 1, 0, 1, 0, 0, 2, 1, 2, 2)	36	$x_1 x_2^3 x_3^5 x_4^2 x_5^5 x_6^2 x_7^5 x_8^5 x_9^2 x_{10}^2 x_{11}^2 x_{12}^2$	$-1 \cdot 2^2 \cdot 3$
(5, 7, 0)	(0, 0, 1, 0, 1, 0, 0, 1, 1, 1, 1, 1)	48	$x_1 x_2^2 x_3^3 x_4^4 x_5^6 x_6^4 x_7^4 x_8^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6$	$-1 \cdot 2 \cdot 3^3$
(5, 6, 1)	(0, 0, 0, 1, 0, 1, 0, 1, 1, 1, 2, 1)	42	$x_1^4 x_2^4 x_3^4 x_4^5 x_5^4 x_6^5 x_7^4 x_8^4 x_9^4 x_{10}^3 x_{11}^2 x_{12}^2$	$-1 \cdot 2^4$
(5, 5, 2)	(0, 0, 0, 1, 0, 1, 0, 2, 1, 2, 1, 1)	37	$x_1^3 x_2^3 x_3^4 x_4^2 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{11}^4 x_{12}^4$	$-1 \cdot 2$
(5, 4, 3)	(0, 0, 0, 0, 1, 1, 0, 2, 1, 2, 1, 2)	36	$x_1^2 x_2^4 x_3^4 x_4^4 x_5^3 x_6^3 x_7^4 x_8^2 x_9^3 x_{10}^2 x_{11}^3 x_{12}^2$ $x_1^4 x_2^4 x_3^4 x_4^3 x_5^3 x_6^3 x_7^4 x_8^2 x_9^3 x_{10}^2 x_{11}^3 x_{12}^2$	$2^2 \cdot 13$ $2 \cdot 7$
(4, 8, 0)	(0, 0, 1, 0, 1, 0, 1, 1, 1, 1, 1, 1)	52	$x_1^3 x_2^3 x_3^7 x_4^3 x_5^6 x_6^3 x_7^7 x_8^7 x_9^7 x_{10}^5 x_{11}^5 x_{12}^2$	$-1 \cdot 2^2 \cdot 7$
(4, 7, 1)	(0, 0, 1, 0, 1, 0, 1, 1, 1, 2, 1, 1)	44	$x_1 x_2^3 x_3 x_4^3 x_5^4 x_6^3 x_7^5 x_8^6 x_9^6 x_{11}^6 x_{12}^6$	$-1 \cdot 2^2 \cdot 3$
(4, 6, 2)	(0, 0, 0, 1, 1, 0, 1, 1, 1, 2, 1, 2)	40	$x_2^3 x_3^3 x_4^4 x_5^5 x_6^3 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5 x_{12}^2$	$2^4 \cdot 3^2$
(4, 5, 3)	(0, 0, 2, 0, 1, 1, 0, 1, 2, 1, 2, 1)	37	$x_1^3 x_2^3 x_3^2 x_4^3 x_5^4 x_6^3 x_7^3 x_8^4 x_9^2 x_{10}^4 x_{11}^2 x_{12}^4$ $x_1^3 x_2^2 x_3^3 x_4^3 x_5^4 x_6^3 x_7^3 x_8^4 x_9^2 x_{10}^4 x_{11}^2 x_{12}^4$	$2^2 \cdot 11$ $-1 \cdot 3833$
(4, 4, 4)	(0, 0, 0, 1, 1, 0, 2, 1, 2, 1, 2, 2)	35	$x_1^3 x_2^3 x_3^3 x_4^2 x_5^3 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3 x_{12}^3$	$-1 \cdot 2^4$
(3, 9, 0)	(0, 1, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1)	57	$x_1 x_2 x_3 x_4^4 x_5^2 x_6^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8$	$-1 \cdot 2^4 \cdot 3^3$
(3, 8, 1)	(0, 0, 1, 1, 0, 1, 1, 1, 1, 1, 1, 2)	50	$x_2^2 x_3 x_4^3 x_5^2 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7$	$-1 \cdot 2^2 \cdot 3 \cdot 5$
(3, 7, 2)	(0, 0, 1, 0, 1, 1, 1, 1, 2, 1, 2, 1)	44	$x_2^2 x_3^2 x_4^2 x_5^6 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6$ $x_1 x_2^2 x_3 x_4^2 x_5^6 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6$	$3 \cdot 31$ $-1 \cdot 3 \cdot 173$
(3, 6, 3)	(0, 0, 1, 0, 1, 2, 1, 2, 1, 2, 1, 1)	39	$x_1^2 x_2^2 x_3^3 x_4^2 x_5^4 x_6^2 x_7^5 x_8^2 x_9^5 x_{10}^2 x_{11}^5 x_{12}^5$ $x_1^2 x_2^2 x_3^4 x_4^2 x_5^3 x_6^5 x_7^2 x_8^5 x_9^2 x_{10}^5 x_{11}^5 x_{12}^5$	$3 \cdot 5 \cdot 11$ $3 \cdot 47$
(3, 5, 4)	(0, 0, 1, 0, 1, 1, 2, 2, 1, 2, 1, 2) (0, 0, 1, 2, 1, 1, 0, 2, 1, 2, 1, 2)	38 38	$x_1^2 x_2^2 x_3^4 x_4^2 x_5^4 x_6^4 x_7^3 x_8^3 x_9^4 x_{10}^3 x_{11}^4 x_{12}^3$ $x_1^2 x_2^2 x_3^4 x_4^3 x_5^4 x_6^4 x_7^3 x_8^3 x_9^4 x_{10}^3 x_{11}^4 x_{12}^3$	$-1 \cdot 2^2 \cdot 3 \cdot 5 \cdot 17$ $-1 \cdot 2 \cdot 3329$
(2, 10, 0)	(0, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1)	66	$x_2^2 x_3^2 x_4 x_5^7 x_6^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9 x_{12}^9$ $x_2^2 x_3^3 x_4 x_5^6 x_6^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9 x_{12}^9$	$2^4 \cdot 17$ 401
(2, 9, 1)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 2, 1)	57	$x_2 x_3 x_4^7 x_5^8 x_6^8 x_8^8 x_9^8 x_{10}^8 x_{12}^8$	$-1 \cdot 3^2 \cdot 7$
(2, 8, 2)	(2, 0, 1, 1, 1, 1, 1, 0, 1, 2, 1, 1)	49	$x_3^2 x_4^3 x_5^7 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$ $x_3^2 x_4^4 x_5^6 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$	$2 \cdot 3 \cdot 11$ 47
(2, 7, 3)	(0, 1, 0, 1, 1, 1, 1, 1, 2, 2, 1, 2)	45	$x_2^2 x_3 x_4^6 x_5^6 x_6^6 x_7^6 x_8^2 x_9^2 x_{10}^6 x_{11}^2 x_{12}^2$ $x_3^3 x_3 x_4^5 x_5^6 x_6^6 x_7^6 x_8^2 x_9^2 x_{10}^6 x_{11}^2 x_{12}^2$	$3^2 \cdot 11$ $2^2 \cdot 53$
(2, 6, 4)	(0, 1, 0, 1, 1, 1, 1, 2, 1, 2, 2, 2)	42	$x_2^4 x_3 x_4^5 x_5^5 x_6^5 x_7^3 x_8^5 x_9^3 x_{10}^3 x_{11}^3 x_{12}^3$	$-1 \cdot 5$
(2, 5, 5)	(0, 1, 0, 1, 1, 2, 2, 1, 2, 1, 2, 2)	40	$x_1 x_2^2 x_3 x_4^4 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4$ $x_1 x_2^3 x_3 x_4^3 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4$	$2^3 \cdot 3 \cdot 53$ $2^2 \cdot 229$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_3 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(1, 11, 0)	(0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	76	$x_2^2 x_3^4 x_4^5 x_5^5 x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10}$	$-1 \cdot 2^2 \cdot 3^5$
(1, 10, 1)	(1, 0, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1)	65	$x_1 x_2^2 x_3^8 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{11}^9 x_{12}^9$ $x_1 x_3^3 x_4^7 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{11}^9 x_{12}^9$	$-1 \cdot 2^3 \cdot 17$ $-1 \cdot 503$
(1, 9, 2)	(0, 1, 1, 2, 2, 1, 1, 1, 1, 1, 1, 1)	59	$x_2^3 x_3^4 x_4 x_5 x_6^5 x_7^5 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8$ $x_2^4 x_3^3 x_4 x_5 x_6^5 x_7^5 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8$	$2 \cdot 443$ $-1 \cdot 2 \cdot 3 \cdot 109$
(1, 8, 3)	(0, 1, 1, 2, 2, 1, 1, 2, 1, 1, 1, 1)	52	$x_2^4 x_3^4 x_4^2 x_5^2 x_6^5 x_7^5 x_8^2 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$ $x_2^3 x_3^5 x_4^2 x_5^2 x_6^5 x_7^5 x_8^2 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$	$-1 \cdot 2^2 \cdot 3^2 \cdot 5 \cdot 11$ $3 \cdot 1823$
(1, 7, 4)	(2, 1, 1, 1, 1, 1, 1, 0, 1, 2, 2, 2)	48	$x_1^2 x_2^5 x_3^4 x_4^5 x_5^5 x_6^6 x_7^6 x_8^3 x_9^3 x_{10}^3 x_{11}^3 x_{12}^3$	$3 \cdot 5^2$
(1, 6, 5)	(0, 1, 1, 2, 2, 1, 1, 2, 2, 1, 1, 2)	48	$x_2^3 x_3^5 x_4^4 x_5^4 x_6^5 x_7^4 x_8^4 x_9^5 x_{10}^5 x_{11}^4 x_{12}^4$ $x_2^4 x_3^4 x_4^4 x_5^4 x_6^5 x_7^4 x_8^4 x_9^5 x_{10}^5 x_{11}^4 x_{12}^4$	$-1 \cdot 3 \cdot 7 \cdot 89 \cdot 359$ $-332317$
(0, 12, 0)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	87	$x_1 x_2^3 x_3^4 x_4^5 x_5^8 x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11}$ $x_1 x_2^3 x_3^4 x_4^6 x_5^7 x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11}$	$2^2 \cdot 3 \cdot 43$ $3^3 \cdot 31$
(0, 11, 1)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 2)	77	$x_1^2 x_2^5 x_3^5 x_4^5 x_5^{10} x_6^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10}$	$-1 \cdot 2^3 \cdot 3$
(0, 10, 2)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 2, 2)	68	$x_1^3 x_2^6 x_3^6 x_4^6 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^{11} x_{11}^{12}$ $x_1^4 x_2^5 x_3^6 x_4^6 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^{11} x_{11}^{12}$	$109$ $97$
(0, 9, 3)	(1, 1, 2, 2, 1, 1, 2, 1, 1, 1, 1, 1)	60	$x_1^2 x_2^5 x_3^2 x_4^2 x_5^7 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8$ $x_1^3 x_2^4 x_3^2 x_4^2 x_5^7 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8$	$2 \cdot 11 \cdot 13$ $-1 \cdot 1487$
(0, 8, 4)	(1, 1, 2, 2, 1, 1, 2, 2, 1, 1, 1, 1)	58	$x_1^5 x_2^6 x_3^3 x_4^3 x_5^7 x_6^3 x_7^3 x_8^7 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$ $x_1^6 x_2^5 x_3^3 x_4^3 x_5^7 x_6^3 x_7^3 x_8^7 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$	$-1 \cdot 3^2 \cdot 751$ $5167$
(0, 7, 5)	(1, 1, 2, 2, 1, 1, 2, 2, 1, 1, 2, 1)	55	$x_1^5 x_2^6 x_3^4 x_4^4 x_5^6 x_6^4 x_7^4 x_8^6 x_9^6 x_{10}^4 x_{11}^6 x_{12}^6$ $x_1^6 x_2^5 x_3^4 x_4^4 x_5^6 x_6^4 x_7^4 x_8^6 x_9^6 x_{10}^4 x_{11}^6 x_{12}^6$	$-1 \cdot 2 \cdot 3^5 \cdot 11 \cdot 43$ $-1 \cdot 3 \cdot 30047$
(0, 6, 6)	(1, 1, 2, 2, 1, 1, 2, 2, 1, 1, 2, 2)	53	$x_2^3 x_3^5 x_4^5 x_5^5 x_6^5 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5 x_{12}^5$ $x_1 x_2^2 x_3^5 x_4^5 x_5^5 x_6^5 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5 x_{12}^5$	$-1 \cdot 2^2 \cdot 3 \cdot 5 \cdot 3847$ $-1 \cdot 2^3 \cdot 3 \cdot 13^2 \cdot 47$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(12, 0, 0, 0)	(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)	131	$x_1^{10} x_2^{11} x_3^{11} x_4^{11} x_5^{11} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11}$ $x_1^{11} x_2^{10} x_3^{11} x_4^{11} x_5^{11} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11}$	$2^4 \cdot 3 \cdot 29 \cdot 12953077208391719881$ $2^3 \cdot 3 \cdot 277 \cdot 1901 \cdot 786640832519761$
(11, 1, 0, 0)	(0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0)	80	$x_1 x_2^3 x_3^7 x_4^{10} x_5^{10} x_6^9 x_8^9 x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10}$ $x_1 x_2^4 x_3^6 x_4^{10} x_5^{10} x_6^9 x_8^9 x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10}$	$-1 \cdot 2^2 \cdot 3 \cdot 17$ $-1 \cdot 2^3 \cdot 19$
(11, 0, 1, 0)	(0, 0, 0, 0, 0, 0, 2, 0, 0, 0, 0, 0)	80	$x_1 x_2^3 x_3^7 x_4^{10} x_5^{10} x_6^9 x_8^9 x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10}$ $x_1 x_2^4 x_3^6 x_4^{10} x_5^{10} x_6^9 x_8^9 x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10}$	$-1 \cdot 2^2 \cdot 3 \cdot 17$ $-1 \cdot 2^3 \cdot 19$
(10, 2, 0, 0)	(0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0)	58	$x_1 x_2^3 x_3^5 x_4^7 x_5^6 x_8^9 x_9^8 x_{10}^9 x_{11}^9 x_{12}^9$	$-1$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(10, 1, 0, 1)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 3)	70	$x_1^3 x_2^4 x_3^9 x_4^9 x_5^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9$ $x_1^3 x_2^5 x_3^8 x_4^9 x_5^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9$	$2^{11} \cdot 11$ $2^5 \cdot 5 \cdot 433$
(10, 1, 1, 0)	(0, 0, 0, 0, 1, 0, 0, 0, 2, 0, 0, 0)	57	$x_1 x_2^3 x_3^5 x_4^7 x_6^6 x_8^9 x_{10}^8 x_{11}^9 x_{12}^9$	-1
(10, 0, 2, 0)	(0, 0, 0, 0, 0, 2, 0, 0, 0, 0, 0, 2)	71	$x_1^2 x_2^5 x_3^9 x_4^9 x_5^9 x_6^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9$ $x_1^3 x_2^4 x_3^9 x_4^9 x_5^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9 x_{12}^9$	$-1 \cdot 2^4 \cdot 3 \cdot 293$ $2^{11} \cdot 11$
(9, 3, 0, 0)	(0, 0, 0, 1, 0, 0, 1, 0, 0, 1, 0, 0)	45	$x_2^2 x_3^4 x_4 x_3^3 x_5^5 x_8^5 x_9^8 x_{10}^2 x_{11}^7 x_{12}^8$	1
(9, 2, 0, 1)	(0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 3)	50	$x_1 x_2^3 x_3^5 x_4^8 x_5^8 x_6^8 x_8 x_7 x_{10}^8 x_{11}^8$	$2^2$
(9, 2, 1, 0)	(0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 2)	49	$x_1^2 x_2^4 x_3^6 x_5^5 x_6^8 x_8 x_7 x_{10}^8 x_{11}^8$	2
(9, 1, 1, 1)	(0, 0, 0, 1, 0, 0, 2, 0, 0, 3, 0, 0)	42	$x_2^2 x_3^4 x_5^3 x_6^5 x_8^5 x_9^8 x_{11}^7 x_{12}^8$	-1
(9, 1, 2, 0)	(0, 0, 0, 2, 0, 0, 1, 0, 0, 2, 0, 0)	43	$x_2^2 x_3^4 x_5^3 x_6^5 x_8^8 x_9 x_{10}^7 x_{11}^8 x_{12}^8$	-1
(9, 0, 3, 0)	(0, 0, 0, 0, 0, 2, 0, 0, 0, 0, 2, 2)	66	$x_2^4 x_3^8 x_4^8 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^2 x_{11}^2 x_{12}^2$ $x_1 x_2^3 x_3^8 x_4^8 x_5^2 x_6^2 x_7^2 x_8^8 x_9^8 x_{10}^8 x_{11}^2 x_{12}^2$	$-1 \cdot 2^4 \cdot 3 \cdot 293$ $-1 \cdot 2^5 \cdot 3^3 \cdot 43$
(8, 4, 0, 0)	(0, 0, 1, 0, 0, 1, 0, 0, 1, 0, 0, 1)	40	$x_1^2 x_2^4 x_3^3 x_5^5 x_6 x_7 x_8^2 x_9^6 x_{10}^7 x_{11}^3 x_{12}^3$	-1
(8, 3, 0, 1)	(0, 0, 0, 1, 0, 0, 1, 0, 1, 0, 0, 3)	38	$x_2^2 x_3^4 x_4 x_3^3 x_6^6 x_7 x_8^2 x_9^6 x_{10}^7 x_{11}^7$	1
(8, 2, 0, 2)	(0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 3, 3)	43	$x_1^2 x_2^4 x_3^7 x_4 x_7 x_5^6 x_7 x_8^7 x_9^7 x_{10}^7 x_{11}^7$	$-1 \cdot 2^2$
(8, 3, 1, 0)	(0, 0, 0, 1, 0, 1, 0, 0, 1, 0, 0, 2)	38	$x_1 x_2^3 x_3^5 x_4 x_5^5 x_6 x_7 x_8^2 x_9^6 x_{10}^7 x_{11}^7$	-1
(8, 2, 1, 1)	(0, 0, 0, 1, 0, 0, 2, 0, 3, 0, 0, 1)	36	$x_2^2 x_3^4 x_5^3 x_6^6 x_7 x_8^6 x_{10}^7 x_{11}^7 x_{12}^7$	-1
(8, 2, 2, 0)	(0, 0, 0, 1, 0, 2, 0, 0, 2, 1, 0, 0)	37	$x_1 x_2^3 x_3^5 x_6^6 x_7 x_8^7 x_9 x_{10}^6 x_{11}^7 x_{12}^7$	1
(8, 1, 2, 1)	(0, 0, 1, 0, 0, 2, 0, 0, 3, 0, 0, 2)	35	$x_1^2 x_2^4 x_3^3 x_5^5 x_7 x_8^6 x_{10}^7 x_{11}^7 x_{12}^7$	-1
(8, 1, 3, 0)	(0, 0, 0, 2, 0, 0, 1, 0, 2, 0, 0, 2)	38	$x_2^2 x_3^4 x_5^3 x_6^6 x_7 x_8^6 x_9 x_{10}^6 x_{11}^7 x_{12}^2$	-1
(8, 0, 4, 0)	(0, 0, 0, 0, 2, 0, 0, 0, 0, 2, 2, 2)	61	$x_1^3 x_2^7 x_3^7 x_4^7 x_5^3 x_6^7 x_7^7 x_8^7 x_9^7 x_{11}^3 x_{12}^3$ $x_1^4 x_2^6 x_3^7 x_4^3 x_5^3 x_6^7 x_7^7 x_8^7 x_9^7 x_{11}^3 x_{12}^3$	$-1 \cdot 2^4 \cdot 3 \cdot 293$ $-1 \cdot 2^2 \cdot 11 \cdot 691$
(7, 5, 0, 0)	(0, 0, 1, 0, 1, 0, 0, 1, 0, 0, 1, 1)	39	$x_1 x_2^3 x_3 x_4^4 x_5^2 x_6^6 x_8^3 x_9^5 x_{10}^6 x_{11}^4 x_{12}^4$	-1
(7, 4, 0, 1)	(0, 0, 0, 1, 0, 0, 1, 0, 1, 0, 3, 1)	35	$x_2^2 x_3^4 x_5^3 x_6^6 x_7 x_8^6 x_9^3 x_{10}^6 x_{12}^3$	1
(7, 3, 0, 2)	(0, 0, 0, 1, 0, 1, 0, 1, 0, 0, 3, 3)	33	$x_2^2 x_3^4 x_4 x_5^4 x_6 x_7 x_8^2 x_9^5 x_{10}^6 x_{11} x_{12}$	1
(7, 4, 1, 0)	(0, 0, 0, 1, 0, 1, 0, 1, 0, 0, 2, 1)	35	$x_2^2 x_3^4 x_5^3 x_6^3 x_7 x_8^3 x_9^5 x_{10}^6 x_{12}^3$	-1
(7, 3, 1, 1)	(0, 0, 1, 0, 0, 1, 0, 1, 0, 0, 3, 2)	31	$x_1 x_2^3 x_4^2 x_5^4 x_6^2 x_7 x_8^2 x_9^5 x_{10}^6$	-1
(7, 2, 1, 2)	(0, 0, 0, 1, 0, 0, 2, 0, 3, 0, 1, 3)	31	$x_2^2 x_3^4 x_5^4 x_6^6 x_8^6 x_9 x_{10}^6 x_{11} x_{12}$	2



$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(7, 3, 2, 0)	(0, 0, 0, 1, 0, 2, 0, 2, 1, 0, 0, 1)	33	$x_2^2 x_3^4 x_5^5 x_6^6 x_7^8 x_9 x_{10}^5 x_{11}^6 x_{12}^2$	-1
(7, 2, 2, 1)	(0, 0, 0, 1, 0, 2, 0, 3, 0, 0, 1, 2)	31	$x_2^2 x_3^4 x_4 x_5^5 x_7^5 x_9^5 x_{10}^6 x_{11} x_{12}$	-1
(7, 2, 3, 0)	(0, 0, 1, 0, 2, 0, 0, 2, 1, 0, 0, 2)	32	$x_1 x_2^3 x_4^2 x_6^4 x_7^2 x_8^2 x_9 x_{10}^5 x_{11}^6 x_{12}^2$	$-1 \cdot 2^2$
(7, 1, 3, 1)	(0, 0, 0, 1, 0, 2, 0, 2, 2, 3, 0, 0)	32	$x_2^2 x_3^4 x_5^3 x_6^2 x_7^6 x_8^2 x_9^2 x_{11}^5 x_{12}^6$	-1
(7, 1, 4, 0)	(0, 0, 0, 2, 0, 0, 1, 0, 2, 0, 2, 2)	35	$x_2^2 x_3^4 x_5^3 x_6^5 x_8^5 x_9^3 x_{10}^6 x_{11}^3 x_{12}^3$	-1
(7, 0, 5, 0)	(0, 0, 0, 0, 2, 0, 0, 0, 2, 2, 2, 2)	60	$x_1^4 x_2^6 x_3^6 x_4^6 x_5^4 x_6^6 x_7^6 x_8^6 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4$ $x_1^5 x_2^5 x_3^6 x_4^6 x_5^6 x_6^6 x_7^6 x_8^6 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4$	$-1 \cdot 2 \cdot 34613$ $-1 \cdot 2^5 \cdot 3 \cdot 547$
(6, 6, 0, 0)	(0, 0, 1, 0, 1, 0, 1, 0, 0, 1, 1, 1)	39	$x_2^2 x_3 x_4^2 x_5^5 x_6^5 x_8^4 x_9^5 x_{10}^5 x_{11}^5 x_{12}^5$	$-1 \cdot 2$
(6, 5, 0, 1)	(0, 0, 1, 0, 0, 1, 0, 1, 0, 3, 1, 1)	33	$x_1 x_2^3 x_4^2 x_5^5 x_6 x_7^4 x_8^4 x_9^5 x_{11}^4 x_{12}^4$	1
(6, 4, 0, 2)	(0, 0, 0, 1, 0, 0, 1, 1, 0, 3, 1, 3)	31	$x_2^2 x_3^4 x_5^4 x_6^5 x_7^3 x_8^5 x_9 x_{10} x_{11}^3 x_{12}$	3
(6, 3, 0, 3)	(0, 0, 1, 0, 1, 0, 1, 0, 0, 3, 3, 3)	29	$x_1 x_2^3 x_4^2 x_5 x_6^5 x_7^2 x_8^4 x_9^5 x_{10}^2 x_{11}^2 x_{12}^2$	1
(6, 5, 1, 0)	(0, 0, 0, 1, 0, 1, 0, 1, 0, 2, 1, 1)	34	$x_2^2 x_3^4 x_5^3 x_6^5 x_7^4 x_8^5 x_9^4 x_{11}^4 x_{12}^4$	$-1 \cdot 2^2$
(6, 4, 1, 1)	(0, 0, 0, 1, 0, 1, 0, 1, 0, 3, 1, 2)	30	$x_2^2 x_3^4 x_4 x_5^5 x_6^2 x_7^5 x_8^3 x_9^5 x_{11}^3$	1
(6, 3, 1, 2)	(0, 0, 0, 1, 0, 0, 2, 3, 0, 1, 3, 1)	28	$x_2^2 x_3^4 x_4^2 x_5^4 x_6^5 x_8 x_9^5 x_{10}^2 x_{11} x_{12}^2$	3
(6, 4, 2, 0)	(0, 0, 1, 0, 1, 0, 1, 0, 0, 2, 1, 2)	30	$x_1 x_2^3 x_4^2 x_5^5 x_6^3 x_7^4 x_8^5 x_{10} x_{11}^3 x_{12}$	-1
(6, 3, 2, 1)	(0, 0, 0, 1, 0, 2, 0, 2, 1, 0, 1, 3)	28	$x_2^2 x_3^4 x_4 x_5^5 x_6 x_7^5 x_8 x_9^2 x_{10}^5 x_{11}^2$	$-1 \cdot 3$
(6, 2, 2, 2)	(0, 0, 1, 0, 0, 2, 0, 3, 0, 1, 3, 2)	26	$x_1 x_2^3 x_4^3 x_5^5 x_7^5 x_8 x_9^5 x_{10} x_{11} x_{12}$	2
(6, 3, 3, 0)	(0, 0, 0, 1, 1, 0, 0, 1, 0, 2, 2, 2)	30	$x_2^2 x_3^4 x_4 x_5 x_6^4 x_7^5 x_8^2 x_9^5 x_{10}^2 x_{11}^2 x_{12}^2$	-1
(6, 2, 3, 1)	(0, 0, 0, 1, 0, 2, 2, 2, 3, 0, 0, 1)	28	$x_2^2 x_3^4 x_4 x_5^5 x_6^2 x_7^2 x_8^2 x_{10}^5 x_{11}^5 x_{12}$	3
(6, 2, 4, 0)	(0, 0, 0, 1, 2, 0, 2, 2, 2, 1, 0, 0)	31	$x_2^3 x_3^5 x_6^4 x_7^3 x_8^3 x_9 x_{10} x_{11}^4 x_{12}^5$	$-1 \cdot 2^2$
(6, 1, 4, 1)	(0, 0, 1, 0, 2, 0, 2, 2, 3, 0, 0, 2)	29	$x_1 x_2^3 x_4^2 x_6^5 x_7^3 x_8^4 x_{10}^5 x_{11}^3 x_{12}^3$	$-1 \cdot 3$
(6, 1, 5, 0)	(0, 0, 0, 2, 0, 0, 1, 2, 0, 2, 2, 2)	34	$x_2^2 x_3^4 x_4 x_5^5 x_6^5 x_8 x_9^5 x_{10}^4 x_{11}^4 x_{12}^4$	$-1 \cdot 3$
(6, 0, 6, 0)	(0, 0, 0, 2, 0, 0, 0, 2, 2, 2, 2, 2)	59	$x_1^4 x_2^5 x_3^5 x_4^5 x_5^5 x_6^5 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5 x_{12}^5$ $x_1^5 x_2^4 x_3^5 x_4^5 x_5^5 x_6^5 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5 x_{12}^5$	$-1 \cdot 2^2 \cdot 7 \cdot 11^2 \cdot 397$ $2^4 \cdot 31 \cdot 491$
(5, 7, 0, 0)	(0, 0, 1, 0, 1, 0, 1, 0, 1, 1, 1, 1)	41	$x_2^2 x_3 x_4^2 x_5^4 x_6^4 x_8^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6$	3
(5, 6, 0, 1)	(0, 0, 1, 0, 1, 0, 1, 0, 3, 1, 1, 1)	35	$x_2^2 x_3 x_4^4 x_5 x_6^3 x_7^5 x_8^4 x_{10}^5 x_{11}^5 x_{12}^5$	1
(5, 5, 0, 2)	(0, 0, 0, 1, 0, 0, 1, 1, 3, 1, 3, 1)	31	$x_2^3 x_3^4 x_5^3 x_6^4 x_7^3 x_8^4 x_9 x_{10}^4 x_{11} x_{12}^4$	$-1 \cdot 2^2$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(5, 4, 0, 3)	(0, 0, 0, 1, 0, 1, 1, 0, 3, 1, 3, 3)	29	$x_2^2 x_3^4 x_4 x_5^4 x_6^2 x_7^3 x_8^4 x_9^2 x_{10}^3 x_{11}^2 x_{12}^2$	3
(5, 6, 1, 0)	(0, 0, 1, 0, 1, 0, 1, 0, 2, 1, 1, 1)	34	$x_1 x_2^3 x_4^2 x_5 x_6^4 x_7^4 x_8^4 x_{10}^5 x_{11}^5 x_{12}^5$	$-1 \cdot 2$
(5, 5, 1, 1)	(0, 0, 0, 1, 0, 1, 1, 0, 2, 1, 1, 3)	30	$x_2^2 x_3^4 x_5^4 x_6^4 x_7^4 x_8^4 x_{10}^4 x_{11}^4$	$-1 \cdot 2^2$
(5, 4, 1, 2)	(0, 0, 1, 0, 0, 1, 1, 0, 3, 1, 3, 2)	26	$x_1 x_2^3 x_4^3 x_5^4 x_6^3 x_7^3 x_8^4 x_9 x_{10}^3 x_{11}$	3
(5, 3, 1, 3)	(0, 0, 0, 1, 0, 0, 2, 3, 1, 3, 1, 3)	26	$x_2^3 x_3^4 x_4^2 x_5^3 x_6^4 x_8^2 x_9^2 x_{10}^2 x_{11}^2 x_{12}^2$	$-1 \cdot 2^2 \cdot 3$
(5, 5, 2, 0)	(0, 0, 0, 1, 1, 0, 1, 0, 2, 1, 1, 2)	31	$x_2^2 x_3^4 x_4 x_5^2 x_6^4 x_7^4 x_8^4 x_9 x_{10}^4 x_{11}^4 x_{12}$	$2^2$
(5, 4, 2, 1)	(0, 0, 0, 1, 0, 2, 3, 0, 1, 2, 1, 1)	27	$x_1^3 x_2^4 x_3^4 x_4^3 x_5^3 x_6^4 x_8^3 x_9^3 x_{10} x_{11}$	1
(5, 3, 2, 2)	(0, 0, 0, 1, 0, 2, 3, 0, 1, 3, 1, 2)	25	$x_2^4 x_3^4 x_4^2 x_5^4 x_7 x_8^4 x_9^2 x_{10} x_{11}^2 x_{12}$	$2^2 \cdot 3$
(5, 4, 3, 0)	(0, 0, 0, 1, 1, 0, 1, 0, 2, 2, 2, 1)	29	$x_2^2 x_3^4 x_4 x_5^2 x_6^4 x_7^3 x_8^4 x_9^2 x_{10}^2 x_{11}^3 x_{12}^3$	2
(5, 3, 3, 1)	(0, 0, 1, 0, 1, 0, 1, 0, 2, 2, 3, 2)	25	$x_1 x_2^3 x_4^3 x_5^2 x_6^4 x_7^2 x_8^4 x_9^2 x_{10}^2 x_{12}^2$	$-1 \cdot 5$
(5, 2, 3, 2)	(0, 0, 0, 1, 0, 2, 2, 2, 3, 0, 1, 3)	25	$x_2^3 x_3^4 x_4 x_5^4 x_6^2 x_7^2 x_8^2 x_9 x_{10}^4 x_{11} x_{12}$	$-1 \cdot 2^2$
(5, 3, 4, 0)	(0, 0, 0, 1, 2, 2, 1, 0, 0, 1, 2, 2)	29	$x_2^3 x_3^4 x_4 x_5^2 x_6^3 x_7 x_8^3 x_9^4 x_{10}^2 x_{11}^3 x_{12}^3$	$2^2$
(5, 2, 4, 1)	(0, 0, 0, 1, 2, 2, 2, 3, 0, 0, 1, 2)	27	$x_2^4 x_3^4 x_4 x_5^2 x_6^2 x_7^3 x_9^3 x_{10}^4 x_{11} x_{12}^3$	$-1 \cdot 2^3$
(5, 2, 5, 0)	(0, 0, 1, 2, 0, 2, 2, 2, 1, 0, 0, 2)	30	$x_1 x_2^3 x_5^3 x_6^3 x_7^4 x_8^4 x_9 x_{10}^3 x_{11}^4 x_{12}^4$	$-1$
(5, 1, 5, 1)	(0, 0, 0, 1, 2, 2, 2, 2, 2, 3, 0, 0)	30	$x_2^3 x_3^4 x_5 x_6^3 x_7^4 x_8^4 x_9^4 x_{11}^3 x_{12}^4$	$-1 \cdot 2$
(5, 1, 6, 0)	(0, 0, 0, 2, 0, 0, 1, 2, 2, 2, 2, 2)	35	$x_2^3 x_3^4 x_5^3 x_6^4 x_8^4 x_9^4 x_{10}^5 x_{11}^5 x_{12}^5$	$-1 \cdot 2$
(5, 0, 7, 0)	(0, 0, 0, 2, 0, 0, 2, 2, 2, 2, 2, 2)	62	$x_1^4 x_2^4 x_3^4 x_4^6 x_5^4 x_6^4 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6$	$-1 \cdot 2 \cdot 3 \cdot 255259$
	(2, 2, 2, 2, 0, 0, 2, 2, 2, 0, 0, 0)	62	$x_1^6 x_2^6 x_3^6 x_4^6 x_5^4 x_6^4 x_7^6 x_8^6 x_9^6 x_{10}^4 x_{11}^4 x_{12}^4$	$2^2 \cdot 7 \cdot 53 \cdot 11443$
(4, 8, 0, 0)	(0, 1, 0, 1, 0, 1, 0, 1, 1, 1, 1, 1)	44	$x_1^2 x_3^2 x_4 x_5^3 x_6^2 x_8^6 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$	$-1 \cdot 2$
(4, 7, 0, 1)	(0, 0, 1, 0, 1, 1, 0, 1, 1, 1, 1, 3)	38	$x_2^2 x_4^2 x_5^2 x_6^5 x_7^3 x_8^6 x_9^6 x_{10}^6 x_{11}^6$	$2 \cdot 3$
(4, 6, 0, 2)	(0, 0, 1, 0, 0, 1, 1, 3, 1, 3, 1, 1)	32	$x_1^2 x_2^3 x_4^2 x_5^3 x_6^3 x_7^3 x_8^5 x_{10} x_{11}^5 x_{12}^5$	$-1 \cdot 2^2$
(4, 5, 0, 3)	(0, 0, 1, 0, 0, 1, 1, 1, 3, 3, 1, 3)	30	$x_2^3 x_4^2 x_5^3 x_6^4 x_7^4 x_8^2 x_9^2 x_{10}^4 x_{11}^2 x_{12}^2$	2
(4, 4, 0, 4)	(0, 0, 1, 0, 1, 1, 0, 3, 1, 3, 3, 3)	28	$x_1 x_2^3 x_4^2 x_5 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3 x_{12}^3$	$-1 \cdot 2$
(4, 7, 1, 0)	(0, 0, 1, 1, 0, 1, 0, 1, 1, 1, 1, 2)	38	$x_2^2 x_3 x_4 x_5^2 x_6^5 x_7^3 x_8^6 x_9^6 x_{10}^6 x_{11}^6$	$2 \cdot 3$
(4, 6, 1, 1)	(0, 0, 0, 1, 0, 1, 1, 2, 1, 1, 3, 1)	32	$x_2^3 x_3^3 x_5^3 x_6^3 x_7^5 x_9^5 x_{10}^5 x_{12}^5$	2
(4, 5, 1, 2)	(0, 0, 0, 1, 0, 1, 1, 3, 1, 3, 1, 2)	28	$x_2^3 x_3^3 x_4^2 x_5^3 x_6^3 x_7^4 x_8 x_9^4 x_{10} x_{11}^4$	2

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(4, 4, 1, 3)	(0, 0, 0, 1, 0, 1, 1, 3, 1, 3, 3, 2)	26	$x_2^3 x_3^3 x_4^2 x_5^3 x_6^3 x_7^3 x_8^2 x_9^3 x_{10}^2 x_{11}^2$	2
(4, 6, 2, 0)	(0, 0, 0, 1, 1, 1, 0, 2, 1, 1, 2, 1)	33	$x_2^3 x_3^3 x_5^3 x_6^4 x_7^3 x_8 x_9^5 x_{10}^5 x_{11} x_{12}^5$	2
(4, 5, 2, 1)	(0, 0, 1, 0, 1, 1, 0, 2, 1, 1, 3, 2)	27	$x_1 x_2^3 x_4^2 x_5^4 x_6^3 x_7^3 x_8 x_9^4 x_{10}^4 x_{12}$	$2^2$
(4, 4, 2, 2)	(0, 0, 0, 1, 0, 2, 3, 1, 2, 1, 1, 3)	25	$x_2^3 x_3^3 x_4^3 x_5^3 x_6 x_7^3 x_8^3 x_9 x_{10}^3 x_{11}^3 x_{12}$	$-1 \cdot 2^2 \cdot 3$
(4, 3, 2, 3)	(0, 0, 1, 0, 0, 2, 3, 1, 3, 1, 3, 2)	23	$x_1^2 x_2^3 x_3^2 x_4^2 x_5^3 x_7^2 x_8^2 x_9^2 x_{10}^2 x_{11}^2 x_{12}$	$-1 \cdot 2^2 \cdot 3$
(4, 5, 3, 0)	(0, 0, 0, 1, 1, 0, 1, 2, 1, 1, 2, 2)	30	$x_2^3 x_3^3 x_5^3 x_6^4 x_7^2 x_8^4 x_9^4 x_{10}^2 x_{11}^2 x_{12}^2$	$2^2$
(4, 4, 3, 1)	(0, 0, 0, 1, 1, 0, 1, 2, 2, 3, 1, 2)	26	$x_2^3 x_3^3 x_4^2 x_5^3 x_6^3 x_7^3 x_8^2 x_9^2 x_{11}^3 x_{12}^2$	$-1 \cdot 3$
(4, 3, 3, 2)	(0, 0, 0, 1, 1, 0, 3, 2, 3, 1, 2, 2)	24	$x_1^2 x_2^2 x_3^3 x_4^2 x_5^2 x_6^3 x_7 x_8^2 x_9 x_{10}^2 x_{11}^2 x_{12}^2$	$-1 \cdot 2$
(4, 4, 4, 0)	(0, 0, 1, 1, 0, 1, 0, 2, 2, 2, 1, 2)	28	$x_1 x_2^3 x_4 x_5^2 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3 x_{12}^3$	$-1 \cdot 2$
(4, 3, 4, 1)	(0, 0, 0, 1, 2, 2, 1, 0, 1, 2, 2, 3)	26	$x_2^3 x_3^3 x_4^2 x_5^2 x_6^3 x_7^2 x_8^3 x_9^2 x_{10}^3 x_{11}^3$	$2 \cdot 3$
(4, 2, 4, 2)	(0, 0, 1, 0, 2, 2, 2, 3, 0, 1, 3, 2)	24	$x_1^2 x_2^3 x_3 x_4^3 x_6^3 x_7^3 x_8^3 x_9^3 x_{10} x_{11} x_{12}^3$	$2^2$
(4, 3, 5, 0)	(0, 0, 0, 2, 0, 1, 2, 1, 1, 2, 2, 2)	30	$x_2^3 x_3^3 x_5^3 x_6^4 x_7^2 x_8^2 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4$	$-1 \cdot 2^2$
(4, 2, 5, 1)	(0, 0, 0, 2, 0, 1, 2, 1, 3, 2, 2, 2)	28	$x_2^3 x_3^3 x_4^2 x_5^3 x_6^3 x_7^3 x_8 x_{10}^4 x_{11}^4 x_{12}^4$	1
(4, 2, 6, 0)	(0, 0, 0, 2, 0, 1, 2, 2, 2, 2, 2, 1)	33	$x_2^3 x_3^3 x_4^2 x_5^3 x_7^2 x_8^4 x_9^5 x_{10}^5 x_{11}^5 x_{12}$	1
(4, 1, 6, 1)	(0, 0, 1, 2, 2, 2, 2, 2, 3, 0, 0, 2)	31	$x_1^2 x_2^3 x_5^2 x_6^4 x_7^5 x_8^5 x_{10}^2 x_{11}^3 x_{12}^5$	$-1 \cdot 2$
(4, 1, 7, 0)	(0, 0, 2, 0, 0, 1, 2, 2, 2, 2, 2, 2)	38	$x_2^3 x_3 x_4^2 x_5^3 x_7^2 x_8^4 x_9^5 x_{10}^6 x_{11}^6 x_{12}^6$	$-1 \cdot 2$
(4, 0, 8, 0)	(0, 0, 2, 0, 0, 2, 2, 2, 2, 2, 2, 2)	65	$x_1^2 x_2^3 x_3^5 x_4^3 x_5^3 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$ $x_1^3 x_2^3 x_3^4 x_4^3 x_5^3 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$	$2^8 \cdot 3203$ $-1 \cdot 2^5 \cdot 31 \cdot 293$
(3, 9, 0, 0)	(0, 1, 1, 0, 1, 0, 1, 1, 1, 1, 1, 1)	51	$x_2^2 x_3^2 x_4 x_5^5 x_6^2 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8$	$-1 \cdot 2^2$
(3, 8, 0, 1)	(0, 0, 1, 0, 1, 1, 1, 1, 1, 1, 3, 1)	43	$x_2^2 x_4^2 x_5 x_6^3 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{12}^7$	$-1 \cdot 3$
(3, 7, 0, 2)	(0, 0, 1, 0, 1, 1, 3, 1, 3, 1, 1, 1)	37	$x_2^2 x_3^2 x_4^2 x_5^4 x_6^7 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6$	$-1 \cdot 2$
(3, 6, 0, 3)	(0, 0, 1, 0, 1, 1, 1, 3, 3, 3, 1, 1)	33	$x_2^2 x_4^2 x_5^3 x_6^5 x_7^5 x_8^2 x_9^2 x_{10}^5 x_{11}^5 x_{12}^5$	$-1 \cdot 5$
(3, 5, 0, 4)	(0, 0, 1, 0, 1, 1, 1, 3, 3, 1, 3, 3)	31	$x_2^2 x_3^2 x_4^2 x_5^3 x_6^3 x_7^4 x_8^2 x_9^3 x_{10}^4 x_{11}^3 x_{12}^3$	-1
(3, 8, 1, 0)	(0, 0, 1, 1, 1, 0, 1, 1, 1, 1, 2, 1)	43	$x_2^2 x_4^2 x_5^2 x_6^2 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{12}^7$	$-1 \cdot 3$
(3, 7, 1, 1)	(0, 0, 1, 0, 1, 1, 2, 1, 1, 3, 1, 1)	35	$x_1^2 x_2^2 x_4^2 x_5 x_6^5 x_8^5 x_9^6 x_{11}^6 x_{12}^6$	-1
(3, 6, 1, 2)	(0, 0, 1, 0, 1, 1, 1, 1, 2, 3, 1, 3)	31	$x_2^2 x_4^2 x_5^5 x_6^5 x_7^5 x_8^5 x_{10}^5 x_{11}^5 x_{12}$	$-1 \cdot 2$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(3, 5, 1, 3)	(0, 0, 1, 0, 1, 1, 3, 1, 3, 1, 2, 3)	27	$x_1^2 x_2^2 x_4^2 x_5^3 x_6^4 x_7^2 x_8^4 x_9^2 x_{10}^4 x_{12}^2$	2
(3, 4, 1, 4)	(0, 0, 1, 0, 1, 1, 2, 3, 3, 3, 1, 3)	27	$x_2^2 x_3^2 x_4^2 x_5^3 x_6^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3 x_{12}^3$	2
(3, 7, 2, 0)	(0, 0, 1, 0, 1, 1, 1, 2, 1, 2, 1, 1)	37	$x_2^2 x_3 x_4^2 x_5^5 x_6^6 x_7^6 x_8^6 x_{10}^6 x_{11}^6 x_{12}^6$	2
(3, 6, 2, 1)	(0, 0, 1, 0, 1, 1, 1, 2, 1, 3, 1, 2)	31	$x_2^2 x_3^2 x_4^2 x_5^5 x_6^5 x_7^5 x_8^5 x_9^5 x_{11}^5 x_{12}^5$	$2^2$
(3, 5, 2, 2)	(0, 0, 1, 0, 1, 1, 1, 2, 1, 3, 3, 2)	27	$x_2^2 x_3^3 x_4^2 x_5^4 x_6^4 x_7^4 x_8^4 x_{10} x_{11} x_{12}$	$-1 \cdot 2^2$
(3, 4, 2, 3)	(0, 0, 1, 0, 1, 1, 3, 1, 3, 2, 3, 2)	25	$x_1^2 x_2^2 x_3^3 x_4^2 x_5^2 x_6^3 x_7^2 x_8^3 x_9^2 x_{10} x_{11}^2 x_{12}$	1
(3, 6, 3, 0)	(0, 0, 1, 1, 0, 1, 2, 1, 1, 2, 2, 1)	32	$x_1^2 x_2^2 x_4 x_5^2 x_6^4 x_7^2 x_8^5 x_9^5 x_{10}^2 x_{11}^2 x_{12}^5$	$3^2$
(3, 5, 3, 1)	(0, 0, 1, 0, 1, 1, 1, 2, 1, 2, 2, 3)	28	$x_1^2 x_2^2 x_3^4 x_4^2 x_5^3 x_6^3 x_7^4 x_8^2 x_9^4 x_{10}^2$	1
(3, 4, 3, 2)	(0, 0, 1, 0, 1, 1, 2, 2, 3, 1, 3, 2)	24	$x_1^2 x_2^2 x_3 x_4^2 x_5^3 x_6^3 x_7^2 x_8^2 x_9 x_{10}^3 x_{11} x_{12}^2$	2
(3, 3, 3, 3)	(0, 0, 1, 0, 1, 1, 3, 2, 3, 2, 2, 3)	24	$x_1^2 x_2^2 x_3^2 x_4^2 x_5^2 x_6^2 x_7^2 x_8^2 x_9^2 x_{10}^2 x_{11}^2 x_{12}^2$	$-1 \cdot 2^2$
(3, 5, 4, 0)	(0, 0, 1, 1, 0, 1, 1, 2, 1, 2, 2, 2)	31	$x_2^2 x_3 x_4^2 x_5^4 x_6^4 x_7^3 x_8^4 x_9^3 x_{10}^3 x_{11}^3 x_{12}^3$	$-1 \cdot 2$
(3, 4, 4, 1)	(0, 0, 1, 0, 1, 1, 2, 2, 3, 2, 2, 1)	27	$x_1^2 x_2^2 x_3^3 x_4^2 x_5^3 x_6^3 x_7^2 x_8^3 x_{10}^3 x_{11}^3 x_{12}^2$	1
(3, 3, 4, 2)	(0, 0, 1, 0, 2, 3, 1, 3, 2, 2, 1, 2)	25	$x_1^2 x_2^2 x_3^2 x_4^2 x_5^2 x_6^2 x_7^2 x_8^3 x_9^3 x_{10}^2 x_{11}^3 x_{12}^3$	$2^2$
(3, 4, 5, 0)	(0, 0, 1, 1, 0, 1, 2, 2, 2, 2, 1, 2)	31	$x_2^2 x_3^3 x_4^2 x_5^2 x_6^3 x_7^4 x_8^4 x_9^4 x_{10}^3 x_{11}^3 x_{12}^4$	-1
(3, 3, 5, 1)	(0, 0, 1, 1, 0, 1, 2, 2, 2, 2, 3, 2)	27	$x_1^2 x_2^2 x_4 x_5^2 x_6^2 x_7^2 x_8^4 x_9^4 x_{10}^4 x_{12}^4$	$-1 \cdot 2$
(3, 2, 5, 2)	(0, 0, 1, 0, 2, 2, 2, 3, 2, 2, 1, 3)	27	$x_2^2 x_4^2 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11} x_{12}$	3
(3, 3, 6, 0)	(0, 0, 1, 1, 0, 2, 2, 1, 2, 2, 2, 2)	33	$x_2^2 x_4 x_5^2 x_6^3 x_7^4 x_8^4 x_9^5 x_{10}^5 x_{11}^5 x_{12}^5$	1
(3, 2, 6, 1)	(0, 0, 1, 2, 2, 2, 3, 0, 2, 2, 1, 2)	31	$x_2^2 x_3 x_5^5 x_6^5 x_8^5 x_9^5 x_{10}^5 x_{11} x_{12}^5$	$3^2$
(3, 2, 7, 0)	(0, 0, 2, 0, 1, 2, 2, 2, 2, 2, 1, 2)	36	$x_1^2 x_2^2 x_4^2 x_6 x_7^4 x_8^6 x_9^6 x_{10}^6 x_{11} x_{12}^6$	$-1 \cdot 2$
(3, 1, 7, 1)	(0, 0, 1, 2, 2, 2, 2, 2, 3, 0, 2, 2)	36	$x_2^2 x_5^2 x_6^6 x_7^6 x_8^2 x_{10}^6 x_{11}^6 x_{12}^6$	$-1 \cdot 3$
(3, 1, 8, 0)	(0, 0, 2, 0, 2, 2, 1, 2, 2, 2, 2, 2)	43	$x_2^2 x_4^2 x_5^4 x_6^4 x_8^6 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$	1
(3, 0, 9, 0)	(0, 0, 2, 0, 2, 2, 2, 2, 2, 2, 2, 2)	72	$x_2^2 x_3^4 x_4^2 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8$ $x_1 x_2^2 x_3^3 x_4^2 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8$	$2 \cdot 7 \cdot 17 \cdot 29 \cdot 179$ $-1 \cdot 2 \cdot 3 \cdot 263951$
(2, 10, 0, 0)	(0, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1)	59	$x_2 x_3^3 x_4^3 x_5 x_6^7 x_8^8 x_9^9 x_{10}^9 x_{11}^9 x_{12}^9$	7
(2, 9, 0, 1)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 3, 1, 1)	49	$x_1 x_2 x_3 x_4^2 x_5^5 x_6^8 x_7^8 x_8^8 x_{11}^8 x_{12}^8$	$-1 \cdot 2^2$
(2, 8, 0, 2)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 3, 1, 3)	43	$x_3 x_4^2 x_5^3 x_6^7 x_7^7 x_8^7 x_9^7 x_{10} x_{11}^7 x_{12}$	$-1 \cdot 2$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(2, 7, 0, 3)	(0, 1, 0, 1, 1, 1, 3, 3, 3, 1, 1, 1)	37	$x_1 x_3 x_4 x_5^4 x_6^6 x_7^2 x_8^2 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6$	$-1 \cdot 2 \cdot 5$
(2, 6, 0, 4)	(0, 1, 0, 1, 1, 1, 1, 3, 3, 3, 1, 3)	35	$x_3 x_4^2 x_5^5 x_6^5 x_7^3 x_8^3 x_9^3 x_{10}^5 x_{11}^3 x_{12}^3$	$2^2$
(2, 5, 0, 5)	(0, 1, 0, 1, 1, 1, 3, 3, 1, 3, 3, 3)	33	$x_1 x_3 x_4^2 x_5^3 x_6^4 x_7^2 x_8^4 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4$	2
(2, 9, 1, 0)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 2, 1)	50	$x_2 x_3 x_4^2 x_5^6 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{12}^8$	$2 \cdot 3$
(2, 8, 1, 1)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 3, 1, 2)	42	$x_2^2 x_3 x_4 x_5^3 x_6^7 x_7^7 x_8^7 x_9^7 x_{11}^7$	5
(2, 7, 1, 2)	(0, 1, 0, 1, 1, 1, 1, 2, 3, 1, 3, 1)	36	$x_3 x_4^3 x_5^6 x_6^6 x_7^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6$ $x_3 x_4^4 x_5^5 x_6^6 x_7^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6$	$3 \cdot 7$ 13
(2, 6, 1, 3)	(0, 1, 0, 1, 1, 1, 1, 2, 3, 1, 3, 3)	32	$x_2^2 x_3 x_4^4 x_5^4 x_6^5 x_7^5 x_9^2 x_{10}^5 x_{11}^2 x_{12}^2$	5
(2, 5, 1, 4)	(0, 1, 0, 1, 1, 1, 3, 3, 1, 3, 3, 2)	30	$x_2^2 x_3 x_4^3 x_5^4 x_6^4 x_7^3 x_8^3 x_9^4 x_{10}^3 x_{11}^3$	$-1 \cdot 2 \cdot 3$
(2, 8, 2, 0)	(0, 1, 0, 1, 1, 1, 2, 1, 2, 1, 1, 1)	42	$x_1 x_3 x_4 x_5^2 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$	1
(2, 7, 2, 1)	(0, 1, 0, 1, 1, 1, 1, 2, 1, 2, 1, 3)	36	$x_3 x_4^3 x_5^6 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6$	$2 \cdot 3^2$
(2, 6, 2, 2)	(0, 1, 0, 1, 1, 1, 1, 2, 3, 1, 3, 2)	30	$x_1 x_3 x_4^4 x_5^5 x_6^5 x_7^5 x_8 x_9 x_{10}^5 x_{11} x_{12}$	5
(2, 5, 2, 3)	(0, 1, 0, 1, 1, 1, 1, 2, 3, 2, 3, 3)	28	$x_2^3 x_3 x_4^4 x_5^4 x_6^4 x_7^4 x_8 x_9^2 x_{10} x_{11}^2 x_{12}^2$	$2^2$
(2, 4, 2, 4)	(0, 1, 0, 1, 1, 2, 3, 3, 3, 1, 3, 2)	26	$x_1 x_2 x_3 x_4^3 x_5^3 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3 x_{12}^3$	$2^2 \cdot 3^2$
(2, 7, 3, 0)	(0, 1, 0, 1, 1, 1, 2, 1, 1, 2, 1, 2)	38	$x_2^2 x_3 x_4 x_5^4 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6$	$2^4 \cdot 3$
(2, 6, 3, 1)	(0, 1, 0, 1, 1, 1, 1, 2, 3, 2, 2, 1)	32	$x_2 x_3 x_4^4 x_5^5 x_6^5 x_7^5 x_8^2 x_{10}^2 x_{11}^2 x_{12}^5$	$2 \cdot 3$
(2, 5, 3, 2)	(0, 1, 0, 1, 1, 1, 2, 1, 2, 2, 3, 3)	28	$x_2^3 x_3 x_4^4 x_5^4 x_6^4 x_7^4 x_8^2 x_9^2 x_{10}^2 x_{11} x_{12}$	$-1 \cdot 2^2$
(2, 4, 3, 3)	(0, 1, 0, 1, 1, 2, 1, 2, 3, 3, 3, 2)	26	$x_1 x_2^3 x_3 x_4^3 x_5^3 x_6^2 x_7^3 x_8^2 x_9^2 x_{10}^2 x_{11}^2 x_{12}^2$	$2^5$
(2, 6, 4, 0)	(0, 1, 0, 1, 1, 1, 2, 1, 2, 2, 1, 2)	35	$x_3 x_4^3 x_5^4 x_6^5 x_7^3 x_8^5 x_9^3 x_{10}^3 x_{11}^5 x_{12}^3$	$3 \cdot 5$
(2, 5, 4, 1)	(0, 1, 0, 1, 1, 1, 2, 1, 2, 2, 3, 2)	29	$x_1 x_3 x_4^3 x_5^4 x_6^4 x_7^3 x_8^4 x_9^3 x_{10}^3 x_{12}^3$	$-1 \cdot 2 \cdot 3$
(2, 4, 4, 2)	(0, 1, 0, 1, 1, 2, 1, 2, 3, 2, 2, 3)	27	$x_2^3 x_3 x_4^3 x_5^3 x_6^3 x_7^3 x_8^3 x_9 x_{10}^3 x_{11}^3 x_{12}$	$-1 \cdot 2^3$
(2, 3, 4, 3)	(0, 1, 0, 1, 1, 2, 2, 3, 2, 3, 3, 2)	25	$x_1 x_2^2 x_3 x_4^2 x_5^2 x_6^3 x_7^3 x_8^2 x_9^3 x_{10}^2 x_{11} x_{12}^3$	2
(2, 5, 5, 0)	(0, 1, 0, 1, 1, 1, 2, 2, 2, 1, 2, 2)	34	$x_3 x_4 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4$	$-1 \cdot 2$
(2, 4, 5, 1)	(0, 1, 0, 1, 1, 2, 2, 3, 2, 2, 1, 2)	30	$x_2^2 x_3 x_4 x_5^3 x_6^4 x_7^4 x_9^4 x_{10}^3 x_{11}^4 x_{12}^4$	$3^2$
(2, 3, 5, 2)	(0, 1, 0, 1, 2, 2, 1, 2, 2, 3, 2, 3)	28	$x_1 x_3 x_4^2 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11} x_{12}$	1
(2, 4, 6, 0)	(0, 1, 1, 0, 1, 2, 2, 2, 2, 1, 2, 2)	34	$x_1 x_3 x_4 x_5^2 x_6^5 x_7^5 x_8^5 x_9^3 x_{10}^5 x_{11}^5 x_{12}^5$	$-1 \cdot 5$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(2, 3, 6, 1)	(0, 1, 0, 1, 1, 2, 2, 2, 2, 3, 2, 2)	32	$x_3x_4^2x_5^2x_6^2x_7^5x_8^5x_9^5x_{11}^5x_{12}^5$	$-1 \cdot 2$
(2, 2, 6, 2)	(0, 1, 0, 2, 2, 2, 3, 2, 2, 1, 3, 2)	30	$x_1x_3x_5^5x_6^5x_7x_8^5x_9^5x_{10}x_{11}x_{12}^5$	$-1 \cdot 3^2$
(2, 3, 7, 0)	(0, 1, 1, 0, 2, 2, 1, 2, 2, 2, 2, 2)	38	$x_2x_3x_4x_5^2x_6^4x_7^2x_8^4x_9^5x_{10}^6x_{11}^6x_{12}^6$	2
(2, 2, 7, 1)	(0, 1, 0, 2, 2, 2, 3, 2, 2, 2, 2, 1)	36	$x_3x_4x_5^3x_6^6x_8^6x_9^6x_{10}^6x_{11}^6x_{12}$	$-1 \cdot 2$
(2, 2, 8, 0)	(0, 1, 2, 0, 2, 2, 2, 1, 2, 2, 2, 2)	43	$x_4x_5^2x_6^4x_7x_8x_9^7x_{10}^7x_{11}^7x_{12}^7$	$-1 \cdot 2$
(2, 1, 8, 1)	(0, 1, 2, 2, 2, 2, 2, 3, 0, 2, 2, 2)	41	$x_1x_4^2x_5^3x_6^6x_7^7x_9x_{10}^7x_{11}^7x_{12}^7$	$-1 \cdot 5$
(2, 1, 9, 0)	(0, 2, 0, 2, 2, 1, 2, 2, 2, 2, 2, 2)	50	$x_2x_3x_4^4x_5^7x_6^6x_7x_8^8x_{10}^8x_{11}^8x_{12}^8$	$-1 \cdot 3$
(2, 0, 10, 0)	(0, 2, 0, 2, 2, 2, 2, 2, 2, 2, 2, 2)	79	$x_1x_2^5x_3x_4^8x_5^9x_6^9x_7x_8^9x_9^9x_{10}^9x_{11}^9x_{12}^9$ $x_1x_2^5x_3x_4^9x_5^9x_6^9x_8^9x_9^9x_{10}^9x_{11}^9x_{12}^9$	$-1 \cdot 197 \cdot 78623$ $5 \cdot 61 \cdot 18223$
(1, 11, 0, 0)	(0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	69	$x_2x_3^2x_4^5x_5^5x_6^6x_7^{10}x_9^{10}x_{10}^{10}x_{11}^{10}x_{12}^{10}$	5
(1, 10, 0, 1)	(0, 1, 1, 1, 1, 1, 1, 1, 3, 1, 1, 1)	59	$x_2^2x_3^2x_4^3x_5^7x_6^9x_8^9x_{10}^9x_{11}^9x_{12}^9$	$-1 \cdot 3$
(1, 9, 0, 2)	(0, 1, 1, 1, 1, 1, 1, 1, 3, 3, 1, 1)	51	$x_2x_3^2x_4^6x_5^8x_6^8x_8^8x_9x_{10}x_{11}^8x_{12}^8$	5
(1, 8, 0, 3)	(0, 1, 1, 1, 1, 1, 1, 1, 3, 1, 3, 3)	45	$x_2x_3x_4^2x_5^7x_6^7x_7^7x_8^2x_9^7x_{10}^2x_{11}^2x_{12}^2$	$-1 \cdot 2^2$
(1, 7, 0, 4)	(0, 1, 1, 1, 1, 3, 3, 3, 1, 3, 1, 1)	41	$x_3x_4^4x_5^6x_6^3x_7^3x_8^3x_9^3x_{10}^6x_{11}^6x_{12}^6$ $x_3^2x_4^3x_5^6x_6^3x_7^3x_8^3x_9^3x_{10}^6x_{11}^6x_{12}^6$	$-1 \cdot 3 \cdot 23$ $-1 \cdot 61$
(1, 6, 0, 5)	(0, 1, 1, 1, 1, 1, 3, 3, 3, 1, 3, 3)	39	$x_2x_3x_4^4x_5^5x_6^3x_7^3x_8^4x_9^5x_{10}^4x_{11}^4x_{12}^4$	-1
(1, 10, 1, 0)	(1, 0, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1)	58	$x_1x_2^2x_3^3x_4^7x_5^9x_6^9x_8^9x_9^9x_{11}^9x_{12}^9$	$2 \cdot 5$
(1, 9, 1, 1)	(0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 2, 3)	50	$x_2^2x_3^3x_4^5x_5^8x_6^8x_8^8x_9^8x_{10}^8$	$2 \cdot 3$
(1, 8, 1, 2)	(1, 1, 1, 3, 2, 1, 0, 1, 1, 3, 1, 1)	42	$x_2x_3^5x_4x_6^6x_7^7x_8^7x_{10}x_{11}^7x_{12}^7$	$2^2$
(1, 7, 1, 3)	(3, 1, 1, 1, 0, 3, 1, 1, 1, 3, 2, 1)	38	$x_2x_3^3x_4^6x_6^2x_7^6x_8^6x_9^6x_{10}^2x_{12}^6$	$-1 \cdot 2$
(1, 6, 1, 4)	(1, 3, 3, 3, 1, 2, 0, 1, 1, 3, 1, 1)	34	$x_2^2x_3x_4^3x_5^5x_8^5x_9^3x_{10}^3x_{11}^5x_{12}^5$	$-1 \cdot 2 \cdot 3$
(1, 5, 1, 5)	(1, 3, 3, 0, 1, 1, 1, 3, 3, 2, 1, 3)	34	$x_2^2x_3^4x_4^4x_5^4x_7^4x_8^4x_9^4x_{11}^4x_{12}^4$ $x_1x_2x_3^4x_4^4x_5^4x_6^4x_7^4x_8^4x_9^4x_{11}^4x_{12}^4$	$-1 \cdot 2^2 \cdot 19$ $-1 \cdot 2 \cdot 79$
(1, 9, 2, 0)	(1, 1, 1, 1, 0, 1, 1, 1, 2, 1, 1, 2)	51	$x_1^2x_2^3x_3^4x_4^8x_6^8x_8^8x_9x_{10}^8x_{11}^8x_{12}$	$-1 \cdot 2 \cdot 3 \cdot 7$
(1, 8, 2, 1)	(1, 0, 2, 3, 1, 1, 2, 1, 1, 1, 1, 1)	43	$x_3x_5^3x_6^4x_7x_8^6x_9^7x_{10}^7x_{11}^7x_{12}^7$	$-1 \cdot 2$
(1, 7, 2, 2)	(1, 2, 1, 2, 1, 3, 1, 0, 1, 1, 1, 3)	37	$x_1x_3^3x_4x_5^6x_6^6x_7^6x_9^6x_{10}^6x_{11}^6x_{12}$	$3 \cdot 5$
(1, 6, 2, 3)	(2, 3, 2, 3, 1, 1, 1, 3, 1, 0, 1, 1)	33	$x_2x_3x_4^2x_5^3x_6^4x_7^5x_8^2x_9^5x_{11}^5x_{12}^5$	$-1 \cdot 2$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(1, 5, 2, 4)	(0, 1, 1, 1, 3, 3, 1, 2, 3, 3, 1, 2)	31	$x_2^4 x_3^3 x_4^4 x_5^3 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^4$	2
(1, 8, 3, 0)	(2, 1, 2, 1, 1, 1, 1, 2, 0, 1, 1, 1)	45	$x_1 x_3 x_4^3 x_5^4 x_6^4 x_7^7 x_8^2 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$	1
(1, 7, 3, 1)	(1, 1, 1, 3, 1, 2, 0, 1, 2, 2, 1, 1)	37	$x_2 x_3^6 x_5^6 x_6^2 x_8^6 x_9^2 x_{10}^2 x_{11}^6 x_{12}^6$	$2 \cdot 3^2$
(1, 6, 3, 2)	(1, 0, 2, 3, 1, 3, 2, 2, 1, 1, 1, 1)	33	$x_3^2 x_4 x_5^5 x_6 x_7^2 x_8^2 x_9^5 x_{10}^5 x_{11}^5 x_{12}^5$	$-1 \cdot 2$
(1, 5, 3, 3)	(3, 1, 2, 1, 2, 1, 1, 2, 1, 3, 0, 3)	29	$x_2^3 x_3^2 x_4^4 x_5^2 x_6^4 x_7^2 x_8^2 x_9^4 x_{10}^2 x_{12}^2$	$2 \cdot 3$
(1, 4, 3, 4)	(0, 1, 3, 2, 3, 2, 2, 1, 1, 3, 1, 3)	29	$x_2^3 x_3^3 x_4 x_5^3 x_6^2 x_7^2 x_8^3 x_9^3 x_{10}^3 x_{11}^3 x_{12}^3$	$2^2$
(1, 7, 4, 0)	(1, 0, 1, 1, 2, 2, 1, 2, 2, 1, 1, 1)	41	$x_1 x_3 x_4^3 x_5^3 x_6^3 x_7^6 x_8^3 x_9^3 x_{10}^6 x_{11}^6 x_{12}^6$	$-1 \cdot 2^4$
(1, 6, 4, 1)	(1, 2, 3, 1, 1, 2, 2, 2, 1, 1, 1, 0)	35	$x_1^2 x_4^4 x_5^5 x_6^3 x_7^3 x_8^3 x_9^5 x_{10}^5 x_{11}^5$	$2^2 \cdot 3$
(1, 5, 4, 2)	(2, 3, 0, 1, 2, 3, 1, 2, 1, 1, 1, 2)	31	$x_1^3 x_2 x_4^3 x_5^3 x_6 x_7^4 x_8^3 x_9^4 x_{10}^4 x_{11}^4 x_{12}$	$3^2$
(1, 4, 4, 3)	(3, 2, 3, 2, 3, 2, 1, 2, 0, 1, 1, 1)	29	$x_1^2 x_2^3 x_3^2 x_4^3 x_5^2 x_6^3 x_7^3 x_8^3 x_{10}^3 x_{11}^2 x_{12}^3$	3
(1, 6, 5, 0)	(1, 1, 2, 2, 1, 0, 2, 2, 2, 1, 1, 1)	38	$x_2 x_3^2 x_4^3 x_5^5 x_7^4 x_8^4 x_9^5 x_{10}^5 x_{11}^5 x_{12}^5$	2
(1, 5, 5, 1)	(0, 1, 1, 1, 2, 2, 2, 1, 2, 1, 2, 3)	34	$x_3^3 x_4^3 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4$	$2^5$
(1, 4, 5, 2)	(2, 1, 2, 2, 2, 1, 3, 0, 1, 2, 3, 1)	30	$x_2^3 x_3^4 x_4^4 x_5^4 x_6^3 x_7 x_9^3 x_{10}^4 x_{11} x_{12}^3$	$2^3$
(1, 3, 5, 3)	(2, 2, 0, 1, 2, 1, 3, 2, 2, 3, 3, 1)	30	$x_1^2 x_2^4 x_4^2 x_5^4 x_6^2 x_7^4 x_8^4 x_9^2 x_{10}^2 x_{11}^2 x_{12}^2$ $x_1^3 x_2^3 x_4^2 x_5^4 x_6^2 x_7^4 x_8^4 x_9^2 x_{10}^2 x_{11}^2 x_{12}^2$	$83$ $2^3 \cdot 5$
(1, 5, 6, 0)	(2, 1, 1, 2, 2, 2, 1, 1, 1, 2, 2, 0)	39	$x_2^2 x_4^5 x_5^5 x_6^5 x_7^4 x_8^4 x_9^5 x_{10}^5 x_{11}^5$	$2^3 \cdot 3$
(1, 4, 6, 1)	(1, 1, 2, 2, 1, 0, 2, 2, 2, 3, 2, 1)	35	$x_2 x_3^3 x_4^5 x_5^3 x_7^5 x_8^5 x_9^5 x_{11}^5 x_{12}^3$	5
(1, 3, 6, 2)	(1, 1, 2, 1, 2, 0, 3, 2, 2, 3, 2, 2)	33	$x_1 x_2 x_3^3 x_4^2 x_5^4 x_7 x_8^5 x_9^5 x_{10} x_{11}^5 x_{12}^5$	$2 \cdot 3 \cdot 5$
(1, 4, 7, 0)	(2, 1, 2, 0, 2, 1, 2, 2, 2, 1, 2, 1)	41	$x_1 x_3 x_5^6 x_6^3 x_7^6 x_8^6 x_9^3 x_{10}^6 x_{11}^6 x_{12}^3$	$-1 \cdot 3$
(1, 3, 7, 1)	(2, 2, 3, 2, 0, 2, 2, 1, 1, 2, 1, 2)	37	$x_2^3 x_4^4 x_6^6 x_7^2 x_8^2 x_9^6 x_{10}^2 x_{11}^6 x_{12}^6$	$2^2 \cdot 3$
(1, 2, 7, 2)	(0, 1, 2, 2, 2, 3, 2, 3, 2, 1, 2, 2)	37	$x_3 x_4^3 x_5^6 x_6 x_7^6 x_8^6 x_9 x_{10} x_{11}^6 x_{12}^6$ $x_3 x_4^4 x_5^5 x_6 x_7^6 x_8^6 x_9 x_{10} x_{11}^6 x_{12}^6$	$3^2 \cdot 7$ 47
(1, 3, 8, 0)	(2, 1, 2, 1, 2, 2, 2, 1, 2, 0, 2, 2)	45	$x_2 x_3 x_4^2 x_5^4 x_6^7 x_7^7 x_8^2 x_9^7 x_{11}^7 x_{12}^7$	$2^2$
(1, 2, 8, 1)	(1, 2, 2, 1, 2, 2, 2, 2, 2, 3, 0, 2)	43	$x_1 x_3^4 x_4 x_5^3 x_6^6 x_7^7 x_8^7 x_9^7 x_{12}^7$	2
(1, 2, 9, 0)	(2, 1, 2, 2, 2, 2, 0, 2, 1, 2, 2, 2)	50	$x_3 x_4^4 x_5^4 x_6^8 x_8^8 x_9 x_{10}^8 x_{11}^8 x_{12}^8$	$-1 \cdot 5$
(1, 1, 9, 1)	(2, 2, 2, 1, 2, 0, 2, 2, 2, 2, 3, 2)	50	$x_1^2 x_2^3 x_3^5 x_5^8 x_8^8 x_9^8 x_{10}^8 x_{12}^8$	1
(1, 1, 10, 0)	(2, 0, 2, 2, 2, 1, 2, 2, 2, 2, 2, 2)	59	$x_1 x_3^3 x_4^5 x_5^8 x_7^8 x_9^8 x_{10}^9 x_{11}^9 x_{12}^9$	3

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(1, 0, 11, 0)	(0, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2)	90	$x_2^5 x_3^6 x_4^9 x_5^{10} x_6^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10}$ $x_2^4 x_3^7 x_4^9 x_5^{10} x_6^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10}$	$-1 \cdot 2^3 \cdot 3^2 \cdot 281627$ $-1 \cdot 2^2 \cdot 7 \cdot 13 \cdot 73583$
(0, 12, 0, 0)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	80	$x_1 x_2^2 x_3^4 x_4^5 x_5^6 x_8^{10} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11}$	2
(0, 11, 0, 1)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 3)	70	$x_1 x_2^3 x_3^4 x_4^5 x_5^7 x_6^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10}$	$-1 \cdot 7$
(0, 10, 0, 2)	(1, 1, 3, 1, 1, 1, 1, 1, 1, 3, 1, 1)	60	$x_1 x_2^2 x_3^4 x_4^6 x_5^9 x_6^9 x_8^9 x_{10}^9 x_{11}^9 x_{12}^9$	$-1 \cdot 3$
(0, 9, 0, 3)	(1, 1, 1, 1, 1, 3, 3, 3, 1, 1, 1, 1)	54	$x_2^2 x_3^2 x_4^6 x_5^8 x_6^2 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8$	$3 \cdot 7$
(0, 8, 0, 4)	(1, 1, 1, 1, 3, 3, 1, 1, 1, 1, 3, 3)	48	$x_1 x_2^3 x_3^4 x_4^7 x_5^3 x_6^7 x_8^7 x_9^7 x_{10}^3 x_{11}^3 x_{12}^3$	$-1 \cdot 2 \cdot 3 \cdot 5$
(0, 7, 0, 5)	(3, 3, 3, 1, 3, 1, 1, 1, 3, 1, 1, 1)	46	$x_2^2 x_3^2 x_4^2 x_5^4 x_6^4 x_7^6 x_8^4 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6$	$-1 \cdot 2$
(0, 6, 0, 6)	(3, 1, 1, 1, 3, 3, 3, 3, 3, 1, 1, 1)	44	$x_2^2 x_3^3 x_4^3 x_5^5 x_6^5 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5 x_{12}^5$	2
(0, 11, 1, 0)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 2)	70	$x_1^2 x_2^2 x_3^4 x_4^5 x_5^7 x_6^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10}$	$-1 \cdot 5$
(0, 10, 1, 1)	(1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 3, 1)	60	$x_1 x_2^2 x_3^5 x_4^7 x_5^9 x_6^9 x_8^9 x_9^9 x_{10}^9 x_{12}^9$	$-1 \cdot 3^2$
(0, 9, 1, 2)	(1, 2, 1, 1, 1, 3, 1, 1, 3, 1, 1, 1)	52	$x_1^2 x_3^3 x_4^5 x_5^8 x_6^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8$	$-1$
(0, 8, 1, 3)	(1, 3, 3, 3, 1, 1, 1, 1, 2, 1, 1, 1)	46	$x_2 x_3^2 x_4^2 x_5^3 x_6^4 x_7^6 x_8^7 x_{10}^7 x_{11}^7 x_{12}^7$	2
(0, 7, 1, 4)	(1, 1, 1, 3, 2, 1, 1, 1, 1, 3, 3, 3)	42	$x_1 x_2^2 x_3^3 x_4^6 x_5^6 x_6^6 x_7^6 x_8^6 x_9^3 x_{10}^3 x_{11}^3 x_{12}^3$ $x_1 x_2^2 x_3^3 x_4^6 x_5^6 x_6^6 x_7^6 x_8^6 x_9^3 x_{10}^3 x_{11}^3 x_{12}^3$	$-1 \cdot 3 \cdot 7$ 29
(0, 6, 1, 5)	(1, 3, 1, 3, 2, 3, 1, 1, 3, 1, 3, 1)	40	$x_2 x_3^3 x_4^4 x_5^5 x_6^5 x_7^4 x_8^5 x_9^4 x_{10}^4 x_{11}^4 x_{12}^5$ $x_2^2 x_3^2 x_4^4 x_5^5 x_6^5 x_7^4 x_8^5 x_9^4 x_{10}^4 x_{11}^4 x_{12}^5$	$-1 \cdot 2^2 \cdot 19$ $-1 \cdot 2 \cdot 3 \cdot 17$
(0, 10, 2, 0)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 2, 1, 2)	61	$x_1 x_2^3 x_3^4 x_4^9 x_5^9 x_6^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9 x_{12}^9$	$5^2$
(0, 9, 2, 1)	(1, 1, 1, 2, 1, 1, 1, 1, 2, 3, 1, 1, 1)	51	$x_1 x_2^2 x_3^6 x_4^8 x_5^8 x_6^8 x_8^8 x_{10}^8 x_{11}^8 x_{12}^8$	$2 \cdot 3 \cdot 5$
(0, 8, 2, 2)	(1, 2, 3, 1, 1, 1, 3, 1, 1, 1, 2, 1)	45	$x_3 x_4^2 x_5^5 x_6^7 x_7^8 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$	$2^2$
(0, 7, 2, 3)	(2, 1, 1, 1, 1, 3, 3, 1, 2, 3, 1, 1)	39	$x_3^3 x_4^5 x_5^6 x_6^2 x_7^6 x_8^6 x_9 x_{10}^2 x_{11}^6 x_{12}^6$	1
(0, 6, 2, 4)	(1, 1, 1, 3, 3, 3, 1, 2, 3, 1, 1, 2)	37	$x_2^3 x_3^5 x_4^3 x_5^3 x_6^3 x_7^5 x_8 x_9^3 x_{10}^5 x_{11}^5 x_{12}$ $x_2^4 x_3^4 x_4^3 x_5^3 x_6^3 x_7^5 x_8 x_9^3 x_{10}^5 x_{11}^5 x_{12}$	$-1 \cdot 11 \cdot 13$ $-1 \cdot 41$
(0, 5, 2, 5)	(3, 1, 1, 1, 3, 2, 1, 3, 3, 3, 1, 2)	35	$x_2^2 x_3^3 x_4^4 x_5^4 x_6 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4 x_{12}$ $x_2^3 x_3^3 x_4^4 x_5^4 x_6 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4 x_{12}$	$2 \cdot 5$ 7
(0, 9, 3, 0)	(1, 2, 1, 1, 1, 1, 1, 2, 1, 2, 1, 1, 1)	54	$x_1 x_2 x_3^4 x_4^4 x_5^8 x_7^8 x_8^2 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8$	$-1 \cdot 2^2 \cdot 3^2$
(0, 8, 3, 1)	(1, 1, 1, 2, 1, 2, 3, 2, 1, 1, 1, 1)	46	$x_1^2 x_2 x_3^4 x_4^2 x_5^5 x_6^2 x_8^7 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$	$-1 \cdot 2^3 \cdot 3$
(0, 7, 3, 2)	(1, 2, 1, 3, 1, 2, 1, 2, 1, 3, 1, 1)	40	$x_2 x_3^3 x_4 x_5^6 x_6^2 x_7^6 x_8^2 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6$	$2 \cdot 5$



$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(0, 6, 3, 3)	(1, 3, 3, 2, 1, 2, 2, 1, 3, 1, 1, 1)	36	$x_1 x_2 x_3^2 x_4^2 x_5^4 x_6^2 x_7 x_8^2 x_9^2 x_{10}^5 x_{11}^5 x_{12}^5$	$2 \cdot 3$
(0, 5, 3, 4)	(2, 1, 3, 3, 1, 3, 2, 1, 1, 2, 1, 3)	34	$\frac{x_2^2 x_3^3 x_4^3 x_5^4 x_6^3 x_7^2 x_8^4 x_9^2 x_{10}^4 x_{11}^3 x_{12}^3}{x_1 x_2 x_3^3 x_4^3 x_5^4 x_6^3 x_7^2 x_8^4 x_9^2 x_{10}^4 x_{11}^3 x_{12}^3}$	$-1 \cdot 59$ $-1 \cdot 3 \cdot 5^2$
(0, 8, 4, 0)	(1, 1, 1, 1, 1, 2, 1, 2, 1, 2, 1, 2)	48	$\frac{x_1 x_2^2 x_3^5 x_4^7 x_5^3 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^7 x_{11}^3 x_{12}^3}{x_1 x_2^3 x_3^4 x_4^7 x_5^3 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^7 x_{11}^3 x_{12}^3}$	$-1 \cdot 5 \cdot 19$ $-1 \cdot 5 \cdot 59$
(0, 7, 4, 1)	(1, 2, 2, 1, 1, 3, 1, 1, 2, 2, 1, 1)	42	$x_2 x_3^3 x_4^2 x_5^6 x_7^6 x_8^3 x_9^3 x_{10}^6 x_{11}^6 x_{12}^6$	$2 \cdot 3^3$
(0, 6, 4, 2)	(1, 2, 1, 2, 3, 2, 3, 1, 2, 1, 1, 1)	36	$\frac{x_3^5 x_4^3 x_5^3 x_6^3 x_7 x_8^5 x_9^3 x_{10}^5 x_{11}^5 x_{12}^5}{x_1 x_3^4 x_4^3 x_5^3 x_6^3 x_7 x_8^5 x_9^3 x_{10}^5 x_{11}^5 x_{12}^5}$	$3 \cdot 11$ $59$
(0, 5, 4, 3)	(1, 2, 1, 1, 3, 2, 1, 2, 1, 2, 3, 3)	34	$\frac{x_3^3 x_4^4 x_5^2 x_6^3 x_7^4 x_8^3 x_9^4 x_{10}^3 x_{11}^2 x_{12}^2}{x_1 x_2^3 x_3^3 x_4^4 x_5^2 x_6^3 x_7^4 x_8^3 x_9^4 x_{10}^3 x_{11}^2 x_{12}^2}$	$2 \cdot 5 \cdot 11$ $17 \cdot 19$
(0, 4, 4, 4)	(1, 2, 1, 2, 3, 3, 2, 3, 2, 3, 1, 1)	32	$\frac{x_2^2 x_3^3 x_4^3 x_5^3 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3 x_{12}^3}{x_1 x_2 x_3^3 x_4^3 x_5^3 x_6^3 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3 x_{12}^3}$	$2 \cdot 5 \cdot 43$ $2^2 \cdot 113$
(0, 7, 5, 0)	(1, 1, 1, 1, 1, 1, 2, 2, 1, 2, 2, 2)	46	$x_1^2 x_2^2 x_3^4 x_4^6 x_5^6 x_7^4 x_8^4 x_9^6 x_{10}^4 x_{11}^4 x_{12}^4$	$2$
(0, 6, 5, 1)	(1, 1, 1, 2, 2, 1, 3, 2, 1, 2, 2, 1)	40	$x_1 x_2 x_3^3 x_4^4 x_5^5 x_6^4 x_8^5 x_{10}^4 x_{11}^4 x_{12}^5$	$5^2$
(0, 5, 5, 2)	(1, 1, 2, 3, 1, 1, 2, 3, 2, 2, 1, 2)	36	$\frac{x_1 x_2 x_3^4 x_4^4 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4}{x_1 x_2^2 x_3^3 x_4^4 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4}$	$2 \cdot 5 \cdot 23$ $2^3 \cdot 29$
(0, 4, 5, 3)	(1, 2, 3, 2, 1, 2, 3, 2, 1, 2, 3, 1)	34	$\frac{x_2^3 x_3^2 x_4^4 x_5^3 x_6^2 x_7^4 x_8^3 x_9^4 x_{10}^2 x_{11}^3 x_{12}^3}{x_1 x_2^2 x_3^2 x_4^4 x_5^3 x_6^2 x_7^4 x_8^3 x_9^4 x_{10}^2 x_{11}^3 x_{12}^3}$	$-1 \cdot 2 \cdot 3 \cdot 797$ $-1 \cdot 2 \cdot 5^2 \cdot 223$
(0, 6, 6, 0)	(1, 2, 2, 2, 1, 2, 1, 2, 1, 2, 1, 1)	45	$\frac{x_1 x_2^3 x_3^3 x_4^4 x_5^5 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5 x_{12}^5}{x_1^2 x_2^2 x_3^3 x_4^4 x_5^5 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^5 x_{12}^5}$	$3 \cdot 79$ $131$
(0, 5, 6, 1)	(2, 1, 2, 1, 1, 2, 3, 1, 2, 2, 1, 2)	39	$\frac{x_3^3 x_4^4 x_5^4 x_6^5 x_8^5 x_9^5 x_{10}^4 x_{11}^5 x_{12}^5}{x_2 x_3^2 x_4^4 x_5^4 x_6^5 x_8^5 x_9^5 x_{10}^4 x_{11}^5 x_{12}^5}$	$2 \cdot 97$ $11 \cdot 13$
(0, 4, 6, 2)	(1, 2, 2, 2, 3, 2, 1, 2, 1, 2, 3, 1)	37	$\frac{x_2 x_3^5 x_4^5 x_5^5 x_6^3 x_7^5 x_8^3 x_9^5 x_{10} x_{11} x_{12}^3}{x_1 x_3^5 x_4^5 x_5^5 x_6^3 x_7^5 x_8^3 x_9^5 x_{10} x_{11} x_{12}^3}$	$2^2 \cdot 3 \cdot 13$ $2 \cdot 3^2 \cdot 17$
(0, 3, 6, 3)	(2, 3, 1, 1, 2, 2, 2, 3, 2, 1, 2, 3)	35	$x_3^2 x_4^2 x_5^5 x_6^5 x_7^2 x_8^5 x_9^2 x_{10}^5 x_{11}^5 x_{12}^2$	$-1 \cdot 2^4$
(0, 5, 7, 0)	(2, 1, 2, 2, 1, 1, 1, 2, 2, 2, 1, 2)	46	$\frac{x_1^2 x_3^4 x_4^6 x_5^4 x_6^4 x_7^4 x_9^6 x_{10}^6 x_{11}^4 x_{12}^6}{x_1^2 x_2^2 x_3^4 x_5^4 x_6^4 x_7^4 x_9^6 x_{10}^6 x_{11}^4 x_{12}^6}$	$7 \cdot 13$ $-1 \cdot 47$
(0, 4, 7, 1)	(1, 2, 1, 2, 2, 2, 1, 2, 1, 2, 3, 2)	42	$x_1 x_2 x_3^4 x_4^5 x_6^6 x_7^6 x_8^3 x_9^6 x_{10}^6 x_{12}^6$	$-1 \cdot 3^2$
(0, 3, 7, 2)	(1, 2, 3, 1, 2, 2, 2, 3, 2, 2, 2, 1)	40	$x_2^2 x_3 x_4^2 x_5^2 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^2$	$-1 \cdot 2 \cdot 3$
(0, 4, 8, 0)	(1, 2, 2, 2, 2, 1, 2, 2, 2, 2, 1, 1)	48	$x_2 x_3^3 x_4^7 x_5^7 x_6^3 x_7^7 x_8^7 x_9^7 x_{10}^3 x_{11}^3 x_{12}^3$	$-1 \cdot 2^3$
(0, 3, 8, 1)	(1, 1, 2, 3, 2, 2, 2, 2, 1, 2, 2, 2)	46	$x_2^2 x_3^2 x_5^5 x_6^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$	$2^2$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_4 \setminus \{(0, 0)\}, |S| = 12$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(0, 2, 8, 2)	(2, 1, 2, 2, 2, 2, 3, 2, 1, 3, 2, 2)	44	$x_3 x_4^5 x_5^7 x_6^7 x_7 x_8^7 x_9 x_{10} x_{11}^7 x_{12}^7$	$-1 \cdot 2 \cdot 3$
(0, 3, 9, 0)	(2, 1, 2, 2, 1, 2, 2, 2, 2, 1, 2, 2)	54	$x_1 x_3^3 x_4^6 x_5^2 x_6^8 x_8^8 x_9^8 x_{10}^2 x_{11}^8 x_{12}^8$	$-1 \cdot 2^3 \cdot 3$
(0, 2, 9, 1)	(2, 1, 2, 2, 2, 1, 2, 2, 2, 3, 2, 2)	52	$x_1 x_2 x_3^2 x_4^7 x_5^8 x_6^8 x_8^8 x_{11}^8 x_{12}^8$ $x_1 x_2 x_3^3 x_4^6 x_5^8 x_6^8 x_8^8 x_{11}^8 x_{12}^8$	19 $2 \cdot 23$
(0, 2, 10, 0)	(2, 2, 2, 2, 2, 1, 2, 2, 2, 2, 2, 1)	61	$x_1^2 x_2^3 x_3^5 x_4^6 x_5^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9 x_{12}$	1
(0, 1, 10, 1)	(2, 2, 2, 3, 2, 2, 2, 2, 2, 1, 2, 2)	59	$x_1 x_2^4 x_3^4 x_5^9 x_6^9 x_8^9 x_9^9 x_{11}^9 x_{12}^9$	5
(0, 1, 11, 0)	(2, 2, 2, 2, 2, 2, 1, 2, 2, 2, 2, 2)	70	$x_1 x_2^3 x_3^4 x_4^8 x_6^8 x_7^9 x_9^9 x_{10}^{10} x_{11}^{10} x_{12}^{10}$	1
(0, 0, 12, 0)	(2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2)	101	$x_1^3 x_2^4 x_3^6 x_4^{11} x_5^{11} x_6^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11}$ $x_1^3 x_2^4 x_3^7 x_4^{10} x_5^{11} x_6^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11}$	30062393 $3^2 \cdot 431 \cdot 11489$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_2 \setminus \{(0, 0)\}, |S| = 13$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(13, 0)	(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)	155		
(12, 1)	(0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0)	96	$x_1 x_2^4 x_3^4 x_4^{10} x_5^{11} x_6^{11} x_8^{11} x_9^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11}$ $x_1^2 x_2^4 x_3^4 x_4^9 x_5^{11} x_6^{11} x_8^{11} x_9^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11}$	$2^2 \cdot 19 \cdot 443$ $-1 \cdot 2^3 \cdot 14821$
(11, 2)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1)	86	$x_1^4 x_2^5 x_3^6 x_4^{10} x_5^{10} x_6 x_7^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10}$ $x_1^5 x_2^5 x_3^5 x_4^{10} x_5^{10} x_6 x_7^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10}$	$-1 \cdot 2 \cdot 3 \cdot 7 \cdot 9767$ $2 \cdot 13 \cdot 13469$
(10, 3)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 1)	80	$x_2^4 x_3^7 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9 x_{12}^2 x_{13}^2$ $x_2^5 x_3^6 x_4^9 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9 x_{12}^2 x_{13}^2$	$-1 \cdot 2^3 \cdot 13 \cdot 41 \cdot 53$ $-1 \cdot 2 \cdot 5^2 \cdot 6899$
(9, 4)	(0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 1, 1)	74	$x_1^4 x_2^5 x_3^8 x_4^8 x_5^3 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^3 x_{12}^3 x_{13}^3$ $x_1^4 x_2^6 x_3^7 x_4^8 x_5^3 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^3 x_{12}^3 x_{13}^3$	$2 \cdot 5^2 \cdot 6899$ $2 \cdot 3^3 \cdot 79 \cdot 109$
(8, 5)	(0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 1, 1, 1)	72	$x_1^4 x_2^6 x_3^7 x_4^7 x_5^4 x_6^7 x_7^7 x_8^7 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4 x_{13}^4$ $x_1^5 x_2^5 x_3^7 x_4^4 x_5^4 x_6^7 x_7^7 x_8^7 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4 x_{13}^4$	$-1 \cdot 2 \cdot 67 \cdot 73517$ $2^2 \cdot 3 \cdot 61 \cdot 2621$
(7, 6)	(0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 1, 1, 1, 1)	70	$x_1^4 x_2^6 x_3^6 x_4^5 x_5^6 x_6^6 x_7^6 x_8^5 x_9^5 x_{10}^5 x_{11}^5 x_{12}^5 x_{13}^5$ $x_1^5 x_2^5 x_3^6 x_4^5 x_5^6 x_6^6 x_7^6 x_8^5 x_9^5 x_{10}^5 x_{11}^5 x_{12}^5 x_{13}^5$	$-1 \cdot 2^3 \cdot 3 \cdot 401 \cdot 7307$ $-1 \cdot 2^4 \cdot 3 \cdot 103 \cdot 6997$
(6, 7)	(0, 0, 0, 1, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1)	72	$x_1^5 x_2^5 x_3^5 x_4^5 x_5^5 x_6^5 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6 x_{13}^6$ $x_1^5 x_2^5 x_3^5 x_4^5 x_5^5 x_6^5 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6 x_{13}^6$	$2^3 \cdot 5 \cdot 7 \cdot 13 \cdot 43 \cdot 113$ $-1 \cdot 2^2 \cdot 5^3 \cdot 31 \cdot 5774149$
(5, 8)	(0, 0, 1, 0, 1, 1, 0, 1, 1, 0, 1, 1, 1, 1)	74	$x_1^2 x_2^4 x_3^7 x_4^4 x_5^7 x_6^7 x_7^4 x_8^7 x_9^4 x_{10}^7 x_{11}^7 x_{12}^7 x_{13}^7$ $x_1^3 x_2^3 x_3^7 x_4^4 x_5^7 x_6^7 x_7^4 x_8^7 x_9^4 x_{10}^7 x_{11}^7 x_{12}^7 x_{13}^7$	$2^3 \cdot 5 \cdot 13 \cdot 17 \cdot 1637 \cdot 3011$ $2^3 \cdot 7 \cdot 79 \cdot 103 \cdot 107 \cdot 733$
(4, 9)	(0, 0, 1, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1)	80	$x_2^3 x_3^7 x_4^3 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8 x_{13}^8$ $x_1 x_2^3 x_3^7 x_4^3 x_5^8 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8 x_{13}^8$	$2^5 \cdot 11 \cdot 92179$ $2^4 \cdot 7 \cdot 1056323$
(3, 10)	(0, 1, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	86	$x_1^2 x_2^3 x_3^2 x_4^2 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9 x_{12}^9 x_{13}^9$ $x_1^2 x_2^3 x_3^2 x_4^2 x_5^9 x_6^9 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9 x_{12}^9 x_{13}^9$	$-1 \cdot 2^4 \cdot 3^3 \cdot 5 \cdot 107 \cdot 1399$ $2^4 \cdot 3 \cdot 5^2 \cdot 31^2 \cdot 313$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_2 \setminus \{(0, 0)\}, |S| = 13$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(2, 11)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	96	$x_1 x_2^4 x_3 x_4^{10} x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^{10}$ $x_1 x_2^5 x_3 x_4^9 x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^{10}$	$2^3 \cdot 108955667$ $23 \cdot 227 \cdot 390161$
(1, 12)	(1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	106	$x_1^3 x_2^4 x_3^{11} x_4^{11} x_5^{11} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11}$ $x_1^4 x_2^4 x_3^{10} x_4^{11} x_5^{11} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11}$	$2 \cdot 3^2 \cdot 5^2 \cdot 47 \cdot 101 \cdot 463$ $2 \cdot 3 \cdot 530259889$
(0, 13)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	120	$x_1^2 x_2^4 x_3^6 x_4^{12} x_5^{12} x_6^{12} x_7^{12} x_8^{12} x_9^{12} x_{10}^{12} x_{11}^{12} x_{12}^{12} x_{13}^{12}$ $x_1^2 x_2^5 x_3^5 x_4^{12} x_5^{12} x_6^{12} x_7^{12} x_8^{12} x_9^{12} x_{10}^{12} x_{11}^{12} x_{12}^{12} x_{13}^{12}$	$2^2 \cdot 5 \cdot 17^2 \cdot 89 \cdot 2689$ $2 \cdot 3 \cdot 1151 \cdot 159161$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_3 \setminus \{(0, 0)\}, |S| = 13$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(13, 0, 0)	(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)	155		
(12, 1, 0)	(0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0)	96	$x_1 x_2^4 x_3^4 x_4^{10} x_5^{11} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11}$ $x_1^2 x_2^4 x_3^4 x_4^9 x_5^{11} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11}$	$2^2 \cdot 19 \cdot 443$ $-1 \cdot 2^3 \cdot 14821$
(11, 2, 0)	(0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 0, 0, 0)	71	$x_1^2 x_2^4 x_3^5 x_4^6 x_5^9 x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^{10}$	3
(11, 1, 1)	(1, 0, 0, 0, 0, 0, 0, 2, 0, 0, 0, 0, 0)	85	$x_2^4 x_3^5 x_4^6 x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^{10}$ $x_2^5 x_3^5 x_4^6 x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^{10}$	$2^2 \cdot 13 \cdot 1061$ $-1 \cdot 2^5 \cdot 3 \cdot 7 \cdot 131$
(10, 3, 0)	(1, 0, 0, 0, 1, 0, 0, 0, 0, 1, 0, 0, 0)	63	$x_1^2 x_2^4 x_3^4 x_4 x_5 x_6^6 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9 x_{12}^9 x_{13}^9$	$-1 \cdot 3$
(10, 2, 1)	(0, 0, 0, 1, 1, 0, 0, 0, 0, 2, 0, 0, 0)	62	$x_1 x_2^4 x_3^4 x_4 x_5 x_6^6 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^9 x_{12}^9 x_{13}^9$	3
(9, 4, 0)	(1, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 1)	59	$x_1 x_2^4 x_3^4 x_4 x_5 x_6^7 x_7^8 x_8^3 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8 x_{13}^3$	5
(9, 3, 1)	(0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 2, 1)	65	$x_1^4 x_2^7 x_3^8 x_4^8 x_5^8 x_6^8 x_7^8 x_8^2 x_9^8 x_{10}^8 x_{11}^8 x_{12}^2 x_{13}^2$ $x_1^5 x_2^6 x_3^8 x_4^8 x_5^8 x_6^8 x_7^8 x_8^2 x_9^8 x_{10}^8 x_{11}^8 x_{12}^2 x_{13}^2$	$-1 \cdot 2^4 \cdot 31 \cdot 71$ $-1 \cdot 2 \cdot 5 \cdot 7 \cdot 709$
(9, 2, 2)	(0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 2, 2)	55	$x_1^4 x_2^4 x_3^6 x_4^6 x_5 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}$	$-1 \cdot 2 \cdot 3$
(8, 5, 0)	(0, 0, 0, 1, 0, 1, 0, 0, 0, 1, 1, 0, 1)	56	$x_1^2 x_2^5 x_3^4 x_4^7 x_5^4 x_6^7 x_7^7 x_8^4 x_9^4 x_{10}^4 x_{11}^4 x_{12}^7$	$-1 \cdot 2^2 \cdot 3^2 \cdot 7$
(8, 4, 1)	(0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 1, 1, 2)	52	$x_1^4 x_2^5 x_3^3 x_4^7 x_5^2 x_6^6 x_7^7 x_8^7 x_9^7 x_{10}^3 x_{11}^3 x_{12}^3$	$-1 \cdot 2^5$
(8, 3, 2)	(0, 0, 0, 0, 1, 1, 0, 2, 0, 0, 1, 0, 2)	50	$x_1^3 x_2^4 x_3^7 x_4^7 x_5^2 x_6^7 x_7^8 x_8^7 x_9^7 x_{10}^2 x_{11}^2 x_{12}^7 x_{13}$ $x_1^4 x_2^3 x_3^7 x_4^7 x_5^2 x_6^7 x_7^8 x_8^7 x_9^7 x_{10}^2 x_{11}^2 x_{12}^7 x_{13}$	47 $-1 \cdot 3 \cdot 5 \cdot 103$
(7, 6, 0)	(0, 1, 1, 0, 1, 1, 0, 0, 0, 1, 0, 0, 1)	54	$x_1^2 x_2^6 x_3^6 x_4^5 x_5^5 x_6^6 x_7^6 x_8^5 x_9^6 x_{10}^6 x_{11}^6 x_{12}^5 x_{13}^5$	$-1 \cdot 2^5 \cdot 3 \cdot 5^2$
(7, 5, 1)	(1, 0, 1, 0, 1, 0, 0, 1, 0, 1, 0, 0, 2)	50	$x_1 x_2 x_3^4 x_4^4 x_5^6 x_6^6 x_7^6 x_8^4 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6$	$2^2 \cdot 3 \cdot 5^2$
(7, 4, 2)	(1, 0, 0, 2, 0, 1, 0, 1, 0, 0, 1, 0, 2)	47	$x_3^6 x_4^6 x_5^3 x_6^6 x_7^3 x_8^6 x_9^6 x_{10}^3 x_{11}^6 x_{12}^6 x_{13}$ $x_2 x_3^5 x_4^6 x_5^6 x_6^6 x_7^3 x_8^6 x_9^6 x_{10}^3 x_{11}^6 x_{12}^6 x_{13}$	$2^3 \cdot 13$ $2^2 \cdot 79$
(7, 3, 3)	(1, 0, 0, 1, 1, 2, 0, 0, 0, 2, 2, 0, 0)	45	$x_3^5 x_4^2 x_5^2 x_6^6 x_7^6 x_8^6 x_9^2 x_{10}^2 x_{11}^6 x_{12}^6 x_{13}^6$	$-1 \cdot 2^3 \cdot 3^3$
(6, 7, 0)	(0, 0, 1, 1, 0, 1, 1, 0, 0, 1, 0, 1, 1)	56	$x_1 x_2^2 x_3^4 x_4^6 x_5^6 x_6^6 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^6 x_{13}^6$ $x_1^2 x_2^3 x_3^3 x_4^5 x_5^6 x_6^6 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{11}^6 x_{13}^6$	$-1 \cdot 7 \cdot 17 \cdot 163$ $-1 \cdot 2 \cdot 28927$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_3 \setminus \{(0, 0)\}, |S| = 13$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(6, 6, 1)	(0, 0, 0, 1, 0, 1, 1, 1, 1, 0, 2, 1, 0)	50	$x_2^3 x_3^3 x_4^4 x_5^5 x_6^5 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{12}^5 x_{13}^5$ $x_1 x_2^3 x_3^3 x_4^3 x_5^5 x_6^5 x_7^5 x_8^5 x_9^5 x_{10}^5 x_{12}^5 x_{13}^5$	$2 \cdot 13 \cdot 61$ $2 \cdot 3 \cdot 163$
(6, 5, 2)	(0, 0, 0, 1, 0, 1, 0, 0, 1, 1, 1, 2, 2)	46	$x_1 x_2^3 x_3^5 x_4^4 x_5^5 x_6^4 x_7^5 x_8^5 x_9^4 x_{10}^4 x_{11}^4 x_{12} x_{13}$	$-1 \cdot 2 \cdot 3 \cdot 5$
(6, 4, 3)	(0, 0, 0, 0, 1, 0, 1, 0, 2, 1, 2, 1, 2)	44	$x_1 x_2^5 x_3^5 x_4^5 x_5^3 x_6^5 x_7^3 x_8^5 x_9^2 x_{10}^2 x_{11}^3 x_{12}^2 x_{13}^2$ $x_1^2 x_2^4 x_3^5 x_4^3 x_5^5 x_6^3 x_7^3 x_8^5 x_9^2 x_{10}^2 x_{11}^3 x_{12}^2 x_{13}^2$	$2^2 \cdot 3^2 \cdot 83$ $3 \cdot 1021$
(5, 8, 0)	(0, 0, 1, 0, 1, 0, 0, 1, 1, 1, 1, 1, 1)	59	$x_2^2 x_3^4 x_4^7 x_5^4 x_6^4 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7 x_{13}^7$ $x_1 x_2^2 x_3^4 x_4^7 x_5^4 x_6^4 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7 x_{13}^7$	$-1 \cdot 2 \cdot 11 \cdot 17$ $2^5 \cdot 59$
(5, 7, 1)	(0, 0, 1, 0, 0, 1, 0, 1, 1, 1, 2, 1, 1)	51	$x_1 x_2^4 x_3^4 x_4^4 x_5^6 x_6^4 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{12}^6 x_{13}^6$	3
(5, 6, 2)	(0, 0, 0, 1, 0, 1, 0, 1, 1, 1, 2, 1, 2)	47	$x_1^2 x_2 x_3^4 x_4^5 x_5^4 x_6^5 x_7^4 x_8^5 x_9^5 x_{10}^5 x_{11} x_{12}^5 x_{13}$ $x_1 x_2^4 x_3^3 x_4^5 x_5^4 x_6^5 x_7^4 x_8^5 x_9^5 x_{10}^5 x_{11} x_{12}^5$	$3 \cdot 7^4$ $2^4 \cdot 13^2$
(5, 5, 3)	(0, 0, 0, 0, 1, 0, 1, 2, 1, 2, 1, 2, 1)	44	$x_1^3 x_2^4 x_3^4 x_4^4 x_5^4 x_6^4 x_7^4 x_8^4 x_9^2 x_{10}^4 x_{11}^2 x_{12}^4 x_{13}^4$	$-1 \cdot 2^4$
(5, 4, 4)	(0, 0, 0, 0, 1, 1, 0, 2, 1, 2, 1, 2, 2)	43	$x_1^4 x_2^4 x_3^4 x_4^2 x_5^3 x_6^4 x_7^3 x_8^3 x_9^3 x_{10}^3 x_{11}^3 x_{12}^3 x_{13}^3$	$-1 \cdot 2^6$
(4, 9, 0)	(0, 1, 0, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1)	63	$x_1^2 x_2^3 x_3^3 x_4^3 x_5^3 x_6^3 x_7^5 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8 x_{13}^8$ $x_1^2 x_2^3 x_3^3 x_4^3 x_5^3 x_6^3 x_7^6 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8 x_{13}^8$	$-1 \cdot 2 \cdot 7^2 \cdot 19$ $-1 \cdot 2^3 \cdot 743$
(4, 8, 1)	(0, 0, 1, 0, 1, 0, 1, 1, 1, 1, 1, 1, 2)	56	$x_2^3 x_3^5 x_4^3 x_5^3 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$ $x_1 x_2^3 x_3^3 x_4^3 x_5^3 x_6^7 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7$	$2^2 \cdot 3 \cdot 7 \cdot 29$ $2^3 \cdot 271$
(4, 7, 2)	(0, 0, 1, 0, 1, 0, 1, 1, 1, 2, 1, 1, 2)	50	$x_1^3 x_2^3 x_3^6 x_4^3 x_5^6 x_6^3 x_7^6 x_8^6 x_9 x_{10}^6 x_{11}^6 x_{12}^6 x_{13}$ $x_1^3 x_2^3 x_3^6 x_4^3 x_5^6 x_6^3 x_7^6 x_8^6 x_9 x_{10}^6 x_{11}^6 x_{12}^6 x_{13}$	$2^2 \cdot 7 \cdot 29$ $-1 \cdot 5 \cdot 383$
(4, 6, 3)	(0, 0, 0, 1, 1, 0, 1, 1, 1, 2, 1, 2, 2)	46	$x_1^3 x_2^3 x_3^3 x_4^4 x_5^4 x_6^3 x_7^5 x_8^5 x_9^5 x_{10}^2 x_{11}^5 x_{12}^2 x_{13}^2$ $x_1^3 x_2^3 x_3^3 x_4^4 x_5^4 x_6^3 x_7^5 x_8^5 x_9^5 x_{11}^5 x_{12}^2 x_{13}^2$	$-1 \cdot 5^2 \cdot 13$ $-1 \cdot 2^3 \cdot 11$
(4, 5, 4)	(0, 0, 2, 0, 1, 1, 0, 1, 2, 1, 2, 1, 2) (0, 0, 2, 0, 1, 0, 1, 1, 2, 1, 2, 1, 2)	44 44	$x_1^3 x_2^3 x_3^3 x_4^4 x_5^4 x_6^3 x_7^4 x_8^3 x_9^4 x_{10}^3 x_{11}^4 x_{12}^3 x_{13}^3$ $x_1^3 x_2^3 x_3^3 x_4^4 x_5^4 x_6^3 x_7^4 x_8^3 x_9^4 x_{10}^3 x_{11}^4 x_{12}^3 x_{13}^3$	$2 \cdot 3 \cdot 9833$ $2^3 \cdot 3 \cdot 13 \cdot 197$
(3, 10, 0)	(0, 1, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1)	71	$x_1^2 x_2^4 x_3^4 x_4^2 x_5^6 x_6^6 x_7^9 x_8^9 x_{10}^9 x_{11}^9 x_{12}^9 x_{13}^9$ $x_1^2 x_2^4 x_3^4 x_4^2 x_5^6 x_6^6 x_7^9 x_8^9 x_{10}^9 x_{11}^9 x_{12}^9 x_{13}^9$	9733 11 · 5189
(3, 9, 1)	(0, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 2, 1)	62	$x_1^2 x_2^4 x_3^4 x_4^2 x_5^8 x_6^8 x_7^8 x_8^8 x_{10}^8 x_{11}^8 x_{13}^8$ $x_1^2 x_2^4 x_3^4 x_4^2 x_5^8 x_6^8 x_7^8 x_8^8 x_{10}^8 x_{11}^8 x_{13}^8$	$2 \cdot 3 \cdot 11^2 \cdot 13$ $-1 \cdot 3 \cdot 3331$
(3, 8, 2)	(0, 0, 1, 0, 1, 1, 1, 1, 2, 1, 2, 1, 1)	54	$x_1^2 x_2^2 x_3^7 x_4^2 x_5^5 x_6^6 x_7^7 x_9 x_{10}^7 x_{11}^7 x_{12}^7 x_{13}^7$ $x_1^2 x_2^2 x_3^7 x_4^2 x_5^5 x_6^6 x_7^7 x_9 x_{10}^7 x_{11}^7 x_{12}^7 x_{13}^7$	$2 \cdot 337$ $-1 \cdot 2 \cdot 3 \cdot 17$
(3, 7, 3)	(0, 0, 1, 0, 1, 1, 1, 1, 2, 1, 2, 1, 2)	51	$x_1^2 x_2^2 x_3^3 x_4^2 x_5^6 x_6^6 x_7^6 x_8^2 x_9^6 x_{10}^2 x_{11}^6 x_{12}^2 x_{13}^2$ $x_1^2 x_2^2 x_3^3 x_4^2 x_5^6 x_6^6 x_7^6 x_8^2 x_9^6 x_{10}^2 x_{11}^6 x_{12}^2 x_{13}^2$	$2 \cdot 11 \cdot 17^2$ $2^3 \cdot 1301$
(3, 6, 4)	(0, 0, 1, 0, 1, 2, 1, 2, 1, 2, 1, 1, 2)	47	$x_1^2 x_2^2 x_3^4 x_4^2 x_5^5 x_6^3 x_7^5 x_8^3 x_9^5 x_{10}^3 x_{11}^5 x_{12}^3 x_{13}^3$ $x_1^2 x_2^2 x_3^4 x_4^2 x_5^5 x_6^3 x_7^5 x_8^3 x_9^5 x_{10}^3 x_{11}^5 x_{12}^3 x_{13}^3$	$5 \cdot 17 \cdot 71$ $2 \cdot 6067$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_3 \setminus \{(0, 0)\}, |S| = 13$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(3, 5, 5)	(0, 0, 1, 0, 1, 1, 2, 2, 1, 2, 1, 2, 2)	45	$x_1^2 x_2^2 x_3^3 x_4^2 x_5^4 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4 x_{13}^4$ $x_1^2 x_2^2 x_3^4 x_4^2 x_5^3 x_6^4 x_7^4 x_8^4 x_9^4 x_{10}^4 x_{11}^4 x_{12}^4 x_{13}^4$	$2 \cdot 7 \cdot 23$ $-1 \cdot 2 \cdot 3 \cdot 5 \cdot 29$
(2, 11, 0)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	80	$x_1 x_2^3 x_3 x_4^3 x_5^6 x_6^6 x_7^{10} x_8^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^{10}$ $x_1 x_2^3 x_3 x_4^3 x_5^6 x_6^7 x_7^9 x_8^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^{10}$	$-1 \cdot 2^6 \cdot 3 \cdot 173$ $-1 \cdot 3 \cdot 19 \cdot 31 \cdot 53$
(2, 10, 1)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1)	69	$x_1 x_2^4 x_3 x_4^6 x_5^6 x_6^6 x_7^9 x_8^9 x_{10}^9 x_{12}^9 x_{13}^9$ $x_1 x_2^4 x_3 x_4^5 x_5^6 x_6^9 x_7^9 x_8^9 x_{10}^9 x_{12}^9 x_{13}^9$	$2^2 \cdot 5 \cdot 349$ $2^3 \cdot 3 \cdot 11 \cdot 47$
(2, 9, 2)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 2, 1, 2)	63	$x_1 x_2^5 x_3 x_4^6 x_5^8 x_6^8 x_7^8 x_8^8 x_{10}^8 x_{11}^8 x_{12}^8 x_{13}^8$ $x_1 x_2^5 x_3 x_4^7 x_5^7 x_6^8 x_7^8 x_8^8 x_{10}^8 x_{11}^8 x_{12}^8 x_{13}^8$	$-1 \cdot 3 \cdot 43 \cdot 349$ $-1 \cdot 2^3 \cdot 3 \cdot 5 \cdot 251$
(2, 8, 3)	(2, 0, 1, 1, 1, 1, 1, 0, 1, 2, 1, 1, 2)	57	$x_1^2 x_2 x_3^3 x_4^4 x_5^7 x_6^7 x_7^7 x_8^7 x_{10}^2 x_{11}^7 x_{12}^7 x_{13}^2$ $x_1^2 x_2 x_3^3 x_4^5 x_5^6 x_6^7 x_7^8 x_8^7 x_{10}^2 x_{11}^7 x_{12}^7 x_{13}^2$	$11 \cdot 269$ $2 \cdot 3 \cdot 307$
(2, 7, 4)	(0, 1, 0, 1, 1, 1, 1, 1, 2, 2, 1, 2, 2)	51	$x_1 x_2^3 x_3 x_4^4 x_5^6 x_6^6 x_7^6 x_8^6 x_{10}^3 x_{11}^3 x_{12}^3 x_{13}^3$ $x_1 x_2^3 x_3 x_4^5 x_5^6 x_6^6 x_7^6 x_8^3 x_{10}^6 x_{11}^3 x_{12}^3 x_{13}^3$	$2^3 \cdot 3^2 \cdot 43$ $-1 \cdot 1061$
(2, 6, 5)	(0, 1, 0, 1, 1, 1, 1, 2, 1, 2, 2, 2, 2)	51	$x_1^5 x_2 x_3^5 x_4^5 x_5^5 x_6^5 x_7^4 x_8^5 x_{10}^4 x_{11}^4 x_{12}^4 x_{13}^4$ $x_1 x_2^4 x_3 x_4^5 x_5^5 x_6^5 x_7^5 x_8^4 x_{10}^5 x_{11}^4 x_{12}^4 x_{13}^4$	$2 \cdot 3 \cdot 23 \cdot 101$ $19 \cdot 1033$
(1, 12, 0)	(1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	90	$x_1^3 x_2^4 x_3^6 x_4^6 x_5^7 x_6^9 x_7^{11} x_8^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11}$ $x_1^3 x_2^5 x_3^5 x_4^6 x_5^7 x_6^9 x_7^{11} x_8^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11}$	$5 \cdot 11^2 \cdot 17$ $-1 \cdot 32057$
(1, 11, 1)	(0, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 1)	80	$x_1^5 x_2^5 x_3^5 x_4^5 x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^{10}$ $x_1^4 x_2^5 x_3^5 x_4^6 x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^{10}$	$2 \cdot 673$ $-1 \cdot 2^2 \cdot 17 \cdot 59$
(1, 10, 2)	(0, 1, 1, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1)	71	$x_2^4 x_3^4 x_4 x_5 x_6^7 x_7^9 x_8^9 x_{10}^9 x_{11}^9 x_{12}^9 x_{13}^9$ $x_2^4 x_3^5 x_4 x_5 x_6^6 x_7^9 x_8^9 x_{10}^9 x_{11}^9 x_{12}^9 x_{13}^9$	$2^2 \cdot 13 \cdot 37$ $2^4 \cdot 3^3 \cdot 29$
(1, 9, 3)	(1, 1, 2, 2, 1, 1, 0, 1, 1, 2, 1, 1, 1)	63	$x_1^3 x_2^6 x_3^2 x_4^8 x_5^8 x_6^8 x_7^2 x_{10}^8 x_{11}^8 x_{12}^8 x_{13}^8$ $x_1^4 x_2^5 x_3^2 x_4^8 x_5^8 x_6^8 x_7^2 x_{10}^8 x_{11}^8 x_{12}^8 x_{13}^8$	$2^2 \cdot 3^4 \cdot 7 \cdot 43$ $-1 \cdot 2 \cdot 3^3 \cdot 139$
(1, 8, 4)	(1, 1, 2, 2, 1, 1, 0, 1, 1, 2, 2, 1, 1)	59	$x_1^5 x_2^7 x_3^3 x_4^7 x_5^7 x_6^7 x_7^3 x_{10}^3 x_{11}^7 x_{12}^7 x_{13}^7$	$2^5 \cdot 3^3 \cdot 5^2 \cdot 7$
(1, 7, 5)	(1, 1, 2, 2, 1, 1, 0, 1, 1, 2, 2, 1, 2)	56	$x_1^3 x_2^3 x_3^4 x_4^4 x_5^6 x_6^6 x_7^6 x_8^4 x_{10}^4 x_{11}^6 x_{12}^4 x_{13}^4$ $x_1^2 x_2^4 x_3^4 x_4^6 x_5^6 x_6^6 x_7^6 x_8^4 x_{10}^4 x_{11}^6 x_{12}^4 x_{13}^4$	$7 \cdot 11 \cdot 307$ $5 \cdot 101477$
(1, 6, 6)	(1, 1, 2, 2, 1, 1, 0, 2, 1, 2, 2, 1, 2)	55	$x_1^2 x_2^3 x_3^5 x_4^5 x_5^5 x_6^5 x_7^5 x_8^5 x_{10}^5 x_{11}^5 x_{12}^5 x_{13}^5$ $x_1^3 x_2^2 x_3^5 x_4^5 x_5^5 x_6^5 x_7^5 x_8^5 x_{10}^5 x_{11}^5 x_{12}^5 x_{13}^5$	$-1 \cdot 3 \cdot 424493$ $-1 \cdot 965317$
(0, 13, 0)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	104	$x_1^2 x_2^4 x_3^6 x_4^6 x_5^6 x_6^8 x_7^{12} x_8^{12} x_{10}^{12} x_{11}^{12} x_{12}^{12} x_{13}^{12}$ $x_1^2 x_2^5 x_3^6 x_4^6 x_5^6 x_6^8 x_7^{12} x_8^{12} x_{10}^{12} x_{11}^{12} x_{12}^{12} x_{13}^{12}$	$2 \cdot 3 \cdot 5 \cdot 29^2$ $5 \cdot 1789$
(0, 12, 1)	(1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	92	$x_1^3 x_2^4 x_3^5 x_4^6 x_5^8 x_6^{11} x_7^{11} x_8^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11}$ $x_1^4 x_2^5 x_3^5 x_4^6 x_5^8 x_6^{11} x_7^{11} x_8^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11}$	$2^2 \cdot 3167$ $-1 \cdot 3 \cdot 67 \cdot 181$
(0, 11, 2)	(1, 1, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1)	81	$x_1^4 x_2^5 x_3 x_4 x_5^5 x_6^{10} x_7^{10} x_8^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^{10}$ $x_1^5 x_2^3 x_3 x_4 x_5^5 x_6^{10} x_7^{10} x_8^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^{10}$	$2^2 \cdot 8963$ $-1 \cdot 2 \cdot 18119$
(0, 10, 3)	(1, 1, 2, 2, 1, 1, 2, 1, 1, 1, 1, 1, 1)	75	$x_1^4 x_2^5 x_3^2 x_4^6 x_5^9 x_6^9 x_7^9 x_8^9 x_{10}^9 x_{11}^9 x_{12}^9 x_{13}^9$ $x_1^5 x_2^3 x_3^2 x_4^6 x_5^9 x_6^9 x_7^9 x_8^9 x_{10}^9 x_{11}^9 x_{12}^9 x_{13}^9$	$3 \cdot 19037$ $-1 \cdot 2 \cdot 3^3 \cdot 29 \cdot 73$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_3 \setminus \{(0, 0)\}, |S| = 13$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(0, 9, 4)	(1, 1, 2, 2, 1, 1, 2, 2, 1, 1, 1, 1, 1)	69	$x_1^4 x_2^5 x_3^3 x_4^8 x_5^8 x_6^3 x_7^3 x_8^8 x_{10}^8 x_{11}^8 x_{12}^8 x_{13}^8$ $x_1^5 x_2^4 x_3^3 x_4^8 x_5^8 x_6^3 x_7^3 x_8^8 x_{10}^8 x_{11}^8 x_{12}^8 x_{13}^8$	$-1 \cdot 2 \cdot 134153$ $2^3 \cdot 47629$
(0, 8, 5)	(1, 1, 2, 2, 1, 1, 2, 2, 1, 1, 2, 1, 1)	64	$x_1^4 x_2^5 x_3^4 x_4^7 x_5^7 x_6^4 x_7^4 x_8^7 x_{10}^4 x_{11}^7 x_{12}^7 x_{13}^7$ $x_1^5 x_2^4 x_3^4 x_4^7 x_5^7 x_6^4 x_7^4 x_8^7 x_{10}^4 x_{11}^7 x_{12}^7 x_{13}^7$	$2^4 \cdot 130021$ $-1 \cdot 3 \cdot 13 \cdot 8669$
(0, 7, 6)	(1, 1, 2, 2, 1, 1, 2, 2, 1, 1, 2, 2, 1)	66	$x_1^3 x_2^3 x_3^5 x_4^6 x_5^6 x_6^5 x_7^5 x_8^6 x_{10}^6 x_{11}^5 x_{12}^6 x_{13}^6$ $x_1^2 x_2^5 x_3^5 x_4^6 x_5^6 x_6^5 x_7^5 x_8^6 x_{10}^6 x_{11}^5 x_{12}^6 x_{13}^6$	$2 \cdot 3 \cdot 491 \cdot 35089$ $2^2 \cdot 106231523$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_2 \setminus \{(0, 0)\}, |S| = 14$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(14, 0)	(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)	181		
(13, 1)	(0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0)	114	$x_1 x_2^4 x_3^4 x_4^9 x_5^{12} x_6^{12} x_7^{12} x_8^{12} x_{10}^{12} x_{12}^{12} x_{13}^{12} x_{14}^{12}$ $x_1 x_2^4 x_3^5 x_4^8 x_5^2 x_6^{12} x_7^{12} x_8^{12} x_{10}^{12} x_{12}^{12} x_{13}^{12} x_{14}^{12}$	$-1 \cdot 2^2 \cdot 645329$ $-1 \cdot 2^5 \cdot 5^2 \cdot 23 \cdot 757$
(12, 2)	(0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1)	103	$x_1^4 x_2^5 x_3^6 x_4^{10} x_5^{11} x_6^{11} x_7 x_8^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11}$ $x_1^4 x_2^6 x_3^5 x_4^{10} x_5^{11} x_6^{11} x_7 x_8^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11}$	$-1 \cdot 2 \cdot 7 \cdot 974989$ $2^7 \cdot 3 \cdot 240893$
(11, 3)	(0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 1)	96	$x_1^4 x_2^7 x_3^9 x_4^{10} x_5^{10} x_6^2 x_7^{10} x_8^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^2 x_{14}^2$ $x_1^4 x_2^8 x_3^8 x_4^{10} x_5^{10} x_6^2 x_7^{10} x_8^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^2 x_{14}^2$	$2 \cdot 47 \cdot 291887$ $2^5 \cdot 5 \cdot 7 \cdot 13 \cdot 1609$
(10, 4)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 1, 1)	89	$x_1^4 x_2^4 x_3^6 x_4^9 x_5^9 x_6^3 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^3 x_{12}^3 x_{13}^3 x_{14}^3$ $x_1^3 x_2^5 x_3^6 x_4^9 x_5^9 x_6^3 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^3 x_{12}^3 x_{13}^3 x_{14}^3$	$2^5 \cdot 2155159$ $2^4 \cdot 683 \cdot 26921$
(9, 5)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 1, 1, 1)	86	$x_1^4 x_2^6 x_3^8 x_4^8 x_5^4 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^4 x_{11}^4 x_{12}^4 x_{13}^4 x_{14}^4$ $x_1^5 x_2^5 x_3^8 x_4^8 x_5^4 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^4 x_{11}^4 x_{12}^4 x_{13}^4 x_{14}^4$	$2 \cdot 547 \cdot 978973$ $2 \cdot 124623043$
(8, 6)	(0, 0, 0, 0, 1, 1, 1, 0, 0, 0, 0, 1, 1, 1)	83	$x_1^4 x_2^7 x_3^7 x_4^5 x_5^5 x_6^5 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^5 x_{12}^5 x_{13}^5 x_{14}^5$ $x_1^5 x_2^6 x_3^7 x_4^5 x_5^5 x_6^5 x_7^7 x_8^7 x_9^7 x_{10}^7 x_{11}^5 x_{12}^5 x_{13}^5 x_{14}^5$	$2^3 \cdot 3^2 \cdot 23 \cdot 463 \cdot 32939$ $2^2 \cdot 3^3 \cdot 5 \cdot 13 \cdot 2501119$
(7, 7)	(0, 0, 0, 0, 1, 0, 0, 0, 1, 1, 1, 1, 1, 1)	84	$x_1^6 x_2^6 x_3^6 x_4^6 x_5^6 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6 x_{13}^6 x_{14}^6$ $x_1^6 x_2^6 x_3^6 x_4^6 x_5^6 x_6^6 x_7^6 x_8^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6 x_{13}^6 x_{14}^6$	$2^4 \cdot 3 \cdot 7 \cdot 17 \cdot 53 \cdot 8387$ $2^3 \cdot 3 \cdot 7 \cdot 23 \cdot 24946279$
(6, 8)	(0, 0, 0, 1, 1, 1, 0, 0, 0, 1, 1, 1, 1, 1)	85	$x_1^4 x_2^5 x_3^5 x_4^7 x_5^7 x_6^5 x_7^5 x_8^5 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7 x_{13}^7 x_{14}^7$ $x_1^5 x_2^4 x_3^5 x_4^7 x_5^7 x_6^5 x_7^5 x_8^5 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7 x_{13}^7 x_{14}^7$	$-1 \cdot 2^3 \cdot 11 \cdot 941 \cdot 1091681$ $2^4 \cdot 3^3 \cdot 9043 \cdot 21487$
(5, 9)	(0, 0, 0, 1, 1, 1, 1, 1, 0, 1, 1, 0, 1, 1)	90	$x_1^2 x_2^4 x_3^4 x_4^8 x_5^8 x_6^8 x_7^8 x_8^4 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8 x_{13}^8 x_{14}^8$ $x_1^3 x_2^3 x_3^4 x_4^8 x_5^8 x_6^8 x_7^8 x_8^4 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8 x_{13}^8 x_{14}^8$	$-1 \cdot 2 \cdot 7^2 \cdot 29868578809$ $-1 \cdot 2^2 \cdot 3 \cdot 421848565301$
(4, 10)	(0, 0, 1, 1, 1, 1, 1, 0, 1, 1, 0, 1, 1, 1)	95	$x_1^3 x_2^3 x_3^2 x_4^9 x_5^9 x_6^9 x_7^3 x_8^9 x_9^9 x_{10}^3 x_{11}^9 x_{12}^9 x_{13}^9 x_{14}^9$ $x_1^3 x_2^3 x_3^3 x_4^8 x_5^9 x_6^9 x_7^3 x_8^9 x_9^9 x_{10}^3 x_{11}^9 x_{12}^9 x_{13}^9 x_{14}^9$	$-1 \cdot 2^3 \cdot 5 \cdot 29 \cdot 463 \cdot 8167703$ $-1 \cdot 2^2 \cdot 5^3 \cdot 7 \cdot 17^2 \cdot 587 \cdot 10433$
(3, 11)	(0, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	104	$x_1^2 x_2^2 x_3^4 x_4^2 x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^{10} x_{14}^{10}$ $x_1^2 x_2^3 x_3^4 x_4^2 x_5^{10} x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^{10} x_{14}^{10}$	$-1 \cdot 2 \cdot 117284188253$ $-1 \cdot 3 \cdot 65260863697$
(2, 12)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	113	$x_1 x_2^4 x_3 x_4^8 x_5^{11} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11} x_{14}^{11}$ $x_1 x_2^4 x_3 x_4^9 x_5^{10} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11} x_{14}^{11}$	$3 \cdot 19 \cdot 79 \cdot 4111 \cdot 26723$ $41 \cdot 25343 \cdot 419303$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_2 \setminus \{(0, 0)\}, |S| = 14$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(1, 13)	(1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	126	$x_1^3 x_2^4 x_3^{11} x_4^{12} x_5^{12} x_6^{12} x_7^{12} x_8^{12} x_9^{12} x_{10}^{12} x_{11}^{12} x_{12}^{12} x_{13}^{12} x_{14}^{12}$ $x_1^4 x_2^4 x_3^{10} x_4^{12} x_5^{12} x_6^{12} x_7^{12} x_8^{12} x_9^{12} x_{10}^{12} x_{11}^{12} x_{12}^{12} x_{13}^{12} x_{14}^{12}$	$3 \cdot 5 \cdot 13370603941$ $3^2 \cdot 13 \cdot 23 \cdot 313 \cdot 349 \cdot 1873$
(0, 14)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	139	$x_1^2 x_2^4 x_3^6 x_4^{10} x_5^{13} x_6^{13} x_7^{13} x_8^{13} x_9^{13} x_{10}^{13} x_{11}^{13} x_{12}^{13} x_{13}^{13} x_{14}^{13}$ $x_1^2 x_2^5 x_3^5 x_4^{10} x_5^{13} x_6^{13} x_7^{13} x_8^{13} x_9^{13} x_{10}^{13} x_{11}^{13} x_{12}^{13} x_{13}^{13} x_{14}^{13}$	$7 \cdot 407951725837$ $2^2 \cdot 3 \cdot 5 \cdot 29 \cdot 43 \cdot 1105141$

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_2 \setminus \{(0, 0)\}, |S| = 15$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(15, 0)				
(14, 1)	(0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0)	133	$x_1 x_2^4 x_3^4 x_4^9 x_5^{12} x_6^{12} x_7^{13} x_8^{13} x_9^{13} x_{10}^{13} x_{11}^{13} x_{12}^{13} x_{13}^{13} x_{14}^{13} x_{15}^{13}$ $x_1 x_2^4 x_3^5 x_4^8 x_5^{12} x_6^{12} x_7^{13} x_8^{13} x_9^{13} x_{10}^{13} x_{11}^{13} x_{12}^{13} x_{13}^{13} x_{14}^{13} x_{15}^{13}$	$3 \cdot 5 \cdot 449 \cdot 77699$ $2^3 \cdot 17 \cdot 431 \cdot 48781$
(13, 2)	(0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1)	121	$x_1^4 x_2^5 x_3^6 x_4^{10} x_5^{11} x_6^{12} x_7 x_8^{12} x_9^{12} x_{10}^{12} x_{11}^{12} x_{12}^{12} x_{13}^{12} x_{14}^{12}$ $x_1^4 x_2^5 x_3^7 x_4^9 x_5^{11} x_6^{12} x_7 x_8^{12} x_9^{12} x_{10}^{12} x_{11}^{12} x_{12}^{12} x_{13}^{12} x_{14}^{12}$	$43 \cdot 59031989$ $5 \cdot 7 \cdot 31 \cdot 61 \cdot 140863$
(12, 3)	(0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 1)	113	$x_1^4 x_2^7 x_3^9 x_4^{10} x_5^{11} x_6^2 x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11} x_{14}^2 x_{15}^2$ $x_1^4 x_2^8 x_3^8 x_4^{10} x_5^{11} x_6^2 x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11} x_{14}^2 x_{15}^2$	$3^2 \cdot 37 \cdot 97 \cdot 65789$ $3^5 \cdot 7 \cdot 43 \cdot 25189$
(11, 4)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1)	105	$x_1^4 x_2^4 x_3^6 x_4^9 x_5^{10} x_6^3 x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^3 x_{14}^3 x_{15}^3$ $x_1^4 x_2^5 x_3^5 x_4^9 x_5^{10} x_6^3 x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^3 x_{14}^3 x_{15}^3$	$2^2 \cdot 22697 \cdot 120607$ $-1 \cdot 2^2 \cdot 3 \cdot 11 \cdot 8386817$
(10, 5)	(0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 1, 1, 1)	101	$x_1^5 x_2^6 x_3^8 x_4^8 x_5^9 x_6^4 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^4 x_{12}^4 x_{13}^4 x_{14}^4 x_{15}^4$ $x_1^5 x_2^6 x_3^7 x_4^9 x_5^9 x_6^4 x_7^9 x_8^9 x_9^9 x_{10}^9 x_{11}^4 x_{12}^4 x_{13}^4 x_{14}^4 x_{15}^4$	$3 \cdot 170389 \cdot 794471$ $2^8 \cdot 3 \cdot 7 \cdot 11 \cdot 31 \cdot 129581$
(9, 6)	(0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 1, 1, 1, 1, 1)	97	$x_1^5 x_2^6 x_3^8 x_4^8 x_5^5 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^5 x_{11}^5 x_{12}^5 x_{13}^5 x_{14}^5 x_{15}^5$ $x_1^6 x_2^5 x_3^8 x_4^8 x_5^5 x_6^8 x_7^8 x_8^8 x_9^8 x_{10}^5 x_{11}^5 x_{12}^5 x_{13}^5 x_{14}^5 x_{15}^5$	$-1 \cdot 2^3 \cdot 7 \cdot 13 \cdot 41 \cdot 53 \cdot 3556601$ $2^3 \cdot 151 \cdot 681853993$
(8, 7)	(0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1)	97	$x_1^6 x_2^7 x_3^7 x_4^6 x_5^6 x_6^7 x_7^7 x_8^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6 x_{13}^6 x_{14}^6 x_{15}^6$ $x_1^7 x_2^6 x_3^7 x_4^6 x_5^6 x_6^7 x_7^7 x_8^6 x_9^6 x_{10}^6 x_{11}^6 x_{12}^6 x_{13}^6 x_{14}^6 x_{15}^6$	$2^3 \cdot 3^2 \cdot 31119324101$ $-1 \cdot 2^4 \cdot 3^6 \cdot 8731 \cdot 16057$
(7, 8)	(0, 0, 0, 1, 0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1)	97	$x_1^5 x_2^6 x_3^6 x_4^7 x_5^6 x_6^6 x_7^6 x_8^6 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7 x_{13}^7 x_{14}^7 x_{15}^7$ $x_1^6 x_2^5 x_3^6 x_4^7 x_5^6 x_6^6 x_7^6 x_8^6 x_9^7 x_{10}^7 x_{11}^7 x_{12}^7 x_{13}^7 x_{14}^7 x_{15}^7$	$2^5 \cdot 3^2 \cdot 31 \cdot 27059 \cdot 35291$ $-1 \cdot 2^4 \cdot 3 \cdot 863 \cdot 5237 \cdot 10939$
(6, 9)	(0, 0, 0, 1, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1)	101	$x_1^4 x_2^5 x_3^5 x_4^8 x_5^5 x_6^5 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8 x_{13}^8 x_{14}^8 x_{15}^8$ $x_1^5 x_2^4 x_3^5 x_4^8 x_5^5 x_6^5 x_7^8 x_8^8 x_9^8 x_{10}^8 x_{11}^8 x_{12}^8 x_{13}^8 x_{14}^8 x_{15}^8$	$-1 \cdot 2 \cdot 3 \cdot 886287349231$ $2^2 \cdot 3^2 \cdot 7 \cdot 49439843113$
(5, 10)	(0, 0, 0, 1, 1, 1, 1, 1, 0, 1, 1, 0, 1, 1, 1, 1)	106	$x_1^2 x_2^4 x_3^4 x_4^7 x_5^9 x_6^9 x_7^9 x_8^4 x_9^9 x_{10}^9 x_{11}^4 x_{12}^9 x_{13}^9 x_{14}^9 x_{15}^9$ $x_1^2 x_2^4 x_3^4 x_4^8 x_5^8 x_6^9 x_7^9 x_8^4 x_9^9 x_{10}^9 x_{11}^4 x_{12}^9 x_{13}^9 x_{14}^9 x_{15}^9$	$2 \cdot 139 \cdot 181 \cdot 293 \cdot 997 \cdot 5501$ $2^3 \cdot 3 \cdot 41 \cdot 1511 \cdot 167856823$
(4, 11)	(0, 0, 1, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	113	$x_1^3 x_2^3 x_3^4 x_4^3 x_5^7 x_6^{10} x_7^{10} x_8^{10} x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^{10} x_{14}^{10} x_{15}^{10}$ $x_1^3 x_2^3 x_3^4 x_4^3 x_5^8 x_6^9 x_7^8 x_8^9 x_9^{10} x_{10}^{10} x_{11}^{10} x_{12}^{10} x_{13}^{10} x_{14}^{10} x_{15}^{10}$	$-1 \cdot 1489 \cdot 153071 \cdot 1290593$ $-1 \cdot 3 \cdot 11 \cdot 14869 \cdot 688228531$
(3, 12)	(0, 1, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	121	$x_1^2 x_2^5 x_3^2 x_4^{11} x_5^{11} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11} x_{14}^{11} x_{15}^{11}$ $x_1^2 x_2^6 x_3^2 x_4^{10} x_5^{11} x_6^{11} x_7^{11} x_8^{11} x_9^{11} x_{10}^{11} x_{11}^{11} x_{12}^{11} x_{13}^{11} x_{14}^{11} x_{15}^{11}$	$3 \cdot 33102802861319$ $7 \cdot 13 \cdot 944337461087$
(2, 13)	(0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	133		
(1, 14)	(1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	145		

$$S \subseteq \mathbb{Z}_p \times \mathbb{Z}_2 \setminus \{(0,0)\}, |S| = 15$$

$\lambda$	$\mathbf{a}$	deg	monomial/s	coefficient/s
(0, 15)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)	161		