Řešte nad $\mathbb{Z}_2$:

(1)
$$\left(\begin{array}{ccc|c} 1 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 \\ 1 & 0 & 0 & 1 \end{array}\right)$$

(2)
$$\left(\begin{array}{ccc|c} 0 & 0 & 1 & 1 \\ 1 & 1 & 0 & 1 \\ 1 & 0 & 0 & 0 \end{array}\right)$$

(3)
$$\left(\begin{array}{ccc|c} 1 & 0 & 1 & 1 \\ 1 & 1 & 0 & 0 \\ 1 & 0 & 0 & 1 \end{array}\right)$$

(4)
$$\left(\begin{array}{ccc|c} 0 & 0 & 1 & 1 \\ 1 & 1 & 1 & 1 \\ 1 & 0 & 1 & 0 \end{array}\right)$$

(5)
$$\left(\begin{array}{ccc|c} 1 & 0 & 0 & 0 \\ 1 & 1 & 0 & 1 \\ 1 & 0 & 0 & 0 \end{array}\right)$$

(6)
$$\left(\begin{array}{cccc|c} 0 & 1 & 1 & 0 & 1 \\ 1 & 0 & 1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 \end{array}\right)$$

(7)
$$\left(\begin{array}{cccc|c} 0 & 1 & 1 & 1 & 0 \\ 1 & 0 & 1 & 0 & 1 \\ 1 & 0 & 0 & 1 & 1 \end{array}\right)$$

(8)
$$\left(\begin{array}{cccc|c} 1 & 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 1 & 1 \\ 1 & 1 & 1 & 1 & 0 \end{array}\right)$$

(9)
$$\left(\begin{array}{cccc|c} 1 & 1 & 0 & 0 & 1 \\ 1 & 0 & 1 & 0 & 1 \\ 1 & 1 & 1 & 0 & 1 \end{array}\right)$$

(10)
$$\left(\begin{array}{cccc|c} 1 & 0 & 0 & 1 & 1 \\ 1 & 1 & 0 & 1 & 1 \\ 0 & 1 & 0 & 1 & 1 \end{array}\right)$$

(11)
$$\left(\begin{array}{ccccc|c} 1 & 0 & 1 & 0 & 1 & 0 \\ 1 & 1 & 1 & 1 & 1 & 1 \\ 0 & 0 & 1 & 1 & 0 & 0 \\ 0 & 1 & 1 & 0 & 1 & 0 \end{array}\right)$$
(12)
$$\left(\begin{array}{ccccc|c} 1 & 1 & 0 & 0 & 1 & 1 \\ 1 & 1 & 0 & 1 & 1 & 1 \\ 1 & 1 & 0 & 1 & 1 & 1 \\ 1 & 0 & 0 & 1 & 1 & 0 \end{array}\right)$$
(13)
$$\left(\begin{array}{ccccc|c} 0 & 0 & 1 & 0 & 1 & 0 \\ 1 & 0 & 1 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 & 1 \end{array}\right)$$
(14)
$$\left(\begin{array}{ccccc|c} 0 & 1 & 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 1 & 1 & 0 & 0 \\ 0 & 1 & 1 & 0 & 1 & 1 \end{array}\right)$$
(15)
$$\left(\begin{array}{ccccc|c} 1 & 0 & 1 & 1 & 1 & 1 \\ 0 & 0 & 1 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 1 & 1 \\ 1 & 1 & 1 & 0 & 1 & 0 \end{array}\right)$$

Řešení ($\mathbb{Z}_2$):

(1) $(1,1,0) + \langle (0,0,1) \rangle$
(2) $(0,1,1)$
(3) $(1,1,0)$
(4) $(1,1,1)$
(5) $(0,1,0) + \langle (0,0,1) \rangle$
(6) $(1,1,0,0) + \langle (1,0,0,1), (1,1,1,0) \rangle$
(7) $(1,0,0,0) + \langle (1,0,1,1) \rangle$
(8) $(0,1,1,0) + \langle (1,1,1,1) \rangle$
(9) $(1,0,0,0) + \langle (0,0,0,1) \rangle$
(10) $(0,0,0,1) + \langle (0,0,1,0) \rangle$
(11) $(1,1,0,0,1) + \langle (1,1,1,1,0) \rangle$
(12) $(0,1,0,0,0) + \langle (1,0,0,0,1), (0,0,1,0,0) \rangle$
(13) $(1,0,0,0,0) + \langle (0,0,1,0,1), (0,0,0,1,0), (0,1,0,0,0) \rangle$
(14) $(0,1,0,1,0) + \langle (1,0,0,0,0) \rangle$
(15) $(0,1,0,0,1) + \langle (1,1,0,1,0) \rangle$

Řešte nad $\mathbb{Z}_3$:

(1)
$$\left(\begin{array}{ccc|c} 2 & 2 & 1 & 1 \\ 2 & 2 & 2 & 1 \\ 1 & 2 & 0 & 0 \end{array}\right)$$

(2)
$$\left(\begin{array}{ccc|c} 2 & 2 & 1 & 2 \\ 2 & 0 & 0 & 2 \\ 1 & 0 & 1 & 1 \end{array}\right)$$

(3)
$$\left(\begin{array}{ccc|c} 0 & 1 & 0 & 2 \\ 2 & 2 & 2 & 2 \\ 2 & 1 & 1 & 1 \end{array}\right)$$

(4)
$$\left(\begin{array}{ccc|c} 1 & 2 & 0 & 2 \\ 2 & 1 & 1 & 0 \\ 2 & 1 & 2 & 2 \end{array}\right)$$

(5)
$$\left(\begin{array}{ccc|c} 0 & 1 & 1 & 2 \\ 1 & 2 & 2 & 0 \\ 1 & 0 & 0 & 2 \end{array}\right)$$

(6)
$$\left(\begin{array}{cccc|c} 0 & 2 & 1 & 2 & 0 \\ 0 & 1 & 2 & 1 & 0 \\ 0 & 2 & 2 & 1 & 0 \end{array}\right)$$

(7)
$$\left(\begin{array}{cccc|c} 1 & 1 & 1 & 0 & 2 \\ 1 & 0 & 2 & 0 & 2 \\ 2 & 0 & 2 & 2 & 1 \end{array}\right)$$

(8)
$$\left(\begin{array}{cccc|c} 2 & 2 & 1 & 0 & 0 \\ 2 & 1 & 2 & 1 & 2 \\ 2 & 0 & 1 & 0 & 2 \end{array}\right)$$

(9)
$$\left(\begin{array}{cccc|c} 2 & 0 & 0 & 0 & 2 \\ 0 & 2 & 2 & 1 & 0 \\ 2 & 1 & 0 & 1 & 1 \end{array}\right)$$

(10)
$$\left(\begin{array}{cccc|c} 0 & 2 & 2 & 1 & 1 \\ 0 & 0 & 0 & 2 & 1 \\ 2 & 0 & 2 & 2 & 2 \end{array}\right)$$

(11)
$$\left(\begin{array}{cccc|c} 1 & 0 & 0 & 2 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 2 & 0 & 0 \end{array}\right)$$

(12)
$$\left(\begin{array}{cccc|c} 0 & 2 & 2 & 0 & 2 \\ 2 & 2 & 1 & 0 & 2 \\ 0 & 0 & 2 & 0 & 1 \end{array}\right)$$

(13)
$$\left(\begin{array}{cccc|c} 0 & 1 & 0 & 1 & 2 \\ 2 & 1 & 0 & 2 & 0 \\ 1 & 0 & 0 & 0 & 1 \end{array}\right)$$

(14)
$$\left(\begin{array}{cccc|c} 0 & 1 & 2 & 1 & 2 \\ 2 & 1 & 0 & 2 & 2 \\ 0 & 2 & 1 & 1 & 2 \end{array}\right)$$

(15)
$$\left(\begin{array}{cccc|c} 1 & 1 & 2 & 1 & 0 \\ 2 & 0 & 2 & 1 & 2 \\ 0 & 2 & 1 & 2 & 1 \end{array}\right)$$

(16)
$$\left(\begin{array}{cccc|c} 2 & 2 & 2 & 0 & 0 \\ 0 & 2 & 0 & 0 & 1 \\ 1 & 1 & 2 & 1 & 1 \end{array}\right)$$

Řešení ($\mathbb{Z}_3$):

(1) $(1,1,0)$
(2) $(1,0,0)$
(3) $(0,2,2)$
(4) $(2,0,2) + \langle(1,1,0)\rangle$
(5) $(2,2,0) + \langle(0,2,1)\rangle$
(6) $(0,0,0,0) + \langle(0,0,1,1),(1,0,0,0)\rangle$
(7) $(2,0,0,0) + \langle(1,1,1,1)\rangle$
(8) $(2,2,1,0) + \langle(2,0,2,1)\rangle$
(9) $(1,2,1,0) + \langle(0,2,2,1)\rangle$
(10) $(2,1,0,2) + \langle(2,2,1,0)\rangle$
(11) $(0,0,0,0) + \langle(0,1,0,0)\rangle$
(12) $(1,2,2,0) + \langle(0,0,0,1)\rangle$
(13) $(1,0,0,2) + \langle(0,0,1,0)\rangle$
(14) $(2,0,0,2) + \langle(1,1,1,0)\rangle$
(15) $(1,2,0,0) + \langle(0,0,1,1)\rangle$
(16) $(0,2,1,0) + \langle(1,0,2,1)\rangle$

Řešte nad $\mathbb{Z}_5$:

(1)
$$\left(\begin{array}{ccc|c} 0 & 2 & 1 & 4 \\ 3 & 3 & 2 & 2 \\ 2 & 2 & 0 & 0 \end{array}\right)$$

(2)
$$\left(\begin{array}{ccc|c} 4 & 4 & 4 & 3 \\ 1 & 3 & 3 & 4 \\ 0 & 1 & 0 & 1 \end{array}\right)$$

(3)
$$\left(\begin{array}{ccc|c} 4 & 2 & 2 & 3 \\ 0 & 1 & 1 & 3 \\ 0 & 3 & 3 & 4 \end{array}\right)$$

(4)
$$\left(\begin{array}{ccc|c} 2 & 2 & 2 & 3 \\ 2 & 2 & 0 & 0 \\ 4 & 4 & 4 & 1 \end{array}\right)$$

(5)
$$\left(\begin{array}{ccc|c} 3 & 4 & 0 & 0 \\ 4 & 3 & 0 & 3 \\ 3 & 2 & 2 & 3 \end{array}\right)$$

(6)
$$\left(\begin{array}{ccc|c} 2 & 3 & 2 & 3 \\ 3 & 3 & 3 & 1 \\ 3 & 0 & 4 & 1 \end{array}\right)$$

(7)
$$\left(\begin{array}{ccc|c} 2 & 1 & 3 & 2 \\ 2 & 0 & 2 & 1 \\ 0 & 1 & 4 & 0 \end{array}\right)$$

(8)
$$\left(\begin{array}{ccc|c} 2 & 1 & 2 & 4 \\ 3 & 2 & 4 & 3 \\ 3 & 3 & 2 & 3 \end{array}\right)$$

(9)
$$\left(\begin{array}{ccc|c} 0 & 3 & 0 & 1 \\ 2 & 2 & 3 & 2 \\ 4 & 4 & 2 & 1 \end{array}\right)$$

(10)
$$\left(\begin{array}{ccc|c} 2 & 0 & 4 & 2 \\ 1 & 2 & 4 & 1 \\ 2 & 1 & 0 & 2 \end{array}\right)$$

(11)
$$\left(\begin{array}{cccc|c} 4 & 4 & 1 & 1 & 1 \\ 2 & 2 & 0 & 0 & 1 \\ 3 & 0 & 3 & 3 & 2 \end{array}\right)$$

(12)
$$\left(\begin{array}{cccc|c} 3 & 0 & 2 & 2 & 4 \\ 1 & 4 & 2 & 0 & 1 \\ 2 & 0 & 4 & 2 & 3 \end{array}\right)$$

(13)
$$\left(\begin{array}{cccc|c} 2 & 1 & 1 & 4 & 0 \\ 0 & 4 & 0 & 0 & 1 \\ 3 & 3 & 1 & 2 & 0 \end{array}\right)$$

(14)
$$\left(\begin{array}{cccc|c} 2 & 4 & 1 & 2 & 0 \\ 1 & 4 & 3 & 1 & 1 \\ 4 & 4 & 3 & 1 & 1 \end{array}\right)$$

(15)
$$\left(\begin{array}{cccc|c} 2 & 2 & 1 & 4 & 2 \\ 4 & 4 & 4 & 1 & 0 \\ 0 & 3 & 3 & 1 & 4 \end{array}\right)$$

(16)
$$\left(\begin{array}{cccc|c} 4 & 0 & 3 & 3 & 2 \\ 1 & 3 & 4 & 1 & 1 \\ 1 & 1 & 0 & 2 & 2 \end{array}\right)$$

(17)
$$\left(\begin{array}{cccc|c} 1 & 0 & 1 & 0 & 3 \\ 0 & 4 & 1 & 4 & 1 \\ 1 & 1 & 3 & 2 & 3 \end{array}\right)$$

(18)
$$\left(\begin{array}{cccc|c} 1 & 2 & 2 & 2 & 1 \\ 0 & 3 & 2 & 2 & 0 \\ 2 & 1 & 4 & 0 & 2 \end{array}\right)$$

(19)
$$\left(\begin{array}{cccc|c} 2 & 1 & 1 & 1 & 0 \\ 2 & 3 & 0 & 3 & 3 \\ 2 & 2 & 0 & 3 & 3 \end{array}\right)$$

(20)
$$\left(\begin{array}{cccc|c} 2 & 2 & 3 & 4 & 2 \\ 0 & 3 & 1 & 3 & 2 \\ 1 & 1 & 3 & 2 & 4 \end{array}\right)$$

Řešení ($\mathbb{Z}_5$):

(1) $(1,4,1)$
(2) $(1,1,0)$
(3) $(3,3,0) + \langle(0,4,1)\rangle$
(4) $(0,0,4) + \langle(4,1,0)\rangle$
(5) $(1,3,2)$
(6) $(1,4,2)$
(7) $(0,3,3)$
(8) $(0,2,1)$
(9) $(1,2,2)$
(10) $(1,0,0) + \langle(3,4,1)\rangle$
(11) $(0,3,4,0) + \langle(0,0,4,1)\rangle$
(12) $(0,3,2,0) + \langle(2,4,1,1)\rangle$
(13) $(2,4,2,0) + \langle(2,0,2,1)\rangle$
(14) $(0,3,3,0) + \langle(0,0,3,1)\rangle$
(15) $(2,0,3,0) + \langle(3,2,1,1)\rangle$
(16) $(4,3,2,0) + \langle(4,4,2,1)\rangle$
(17) $(1,1,2,0) + \langle(2,2,3,1)\rangle$
(18) $(1,0,0,0) + \langle(2,2,1,1)\rangle$
(19) $(4,0,2,0) + \langle(1,0,2,1)\rangle$
(20) $(3,0,2,0) + \langle(4,4,0,1)\rangle$

Řešte nad $\mathbb{Z}_7$.

(1)
$$\left(\begin{array}{ccc|c} 4 & 4 & 5 & 0 \\ 0 & 1 & 4 & 3 \\ 3 & 6 & 1 & 3 \end{array}\right)$$

(2)
$$\left(\begin{array}{ccc|c} 6 & 3 & 4 & 2 \\ 5 & 6 & 1 & 4 \\ 1 & 3 & 3 & 3 \end{array}\right)$$

(3)
$$\left(\begin{array}{ccc|c} 0 & 0 & 6 & 5 \\ 3 & 4 & 0 & 1 \\ 0 & 1 & 1 & 5 \end{array}\right)$$

(4)
$$\left(\begin{array}{ccc|c} 1 & 3 & 0 & 6 \\ 1 & 4 & 0 & 4 \\ 6 & 6 & 6 & 1 \end{array}\right)$$

(5)
$$\left(\begin{array}{ccc|c} 6 & 4 & 2 & 3 \\ 1 & 3 & 0 & 6 \\ 2 & 6 & 3 & 1 \end{array}\right)$$

(6)
$$\left(\begin{array}{ccc|c} 5 & 0 & 3 & 6 \\ 0 & 3 & 0 & 1 \\ 3 & 2 & 2 & 0 \end{array}\right)$$

(7)
$$\left(\begin{array}{ccc|c} 6 & 6 & 2 & 4 \\ 0 & 5 & 4 & 0 \\ 5 & 3 & 5 & 2 \end{array}\right)$$

(8)
$$\left(\begin{array}{ccc|c} 6 & 6 & 0 & 3 \\ 2 & 1 & 0 & 4 \\ 5 & 2 & 1 & 4 \end{array}\right)$$

(9)
$$\left(\begin{array}{ccc|c} 1 & 0 & 4 & 1 \\ 0 & 2 & 4 & 0 \\ 1 & 3 & 3 & 1 \end{array}\right)$$

(10)
$$\left(\begin{array}{ccc|c} 1 & 6 & 1 & 4 \\ 4 & 6 & 0 & 0 \\ 6 & 1 & 6 & 3 \end{array}\right)$$

(11)
$$\left(\begin{array}{cccc|c} 2 & 6 & 2 & 2 & 5 \\ 3 & 4 & 2 & 6 & 3 \\ 2 & 6 & 3 & 6 & 0 \end{array}\right)$$

(12)
$$\left(\begin{array}{cccc|c} 1 & 6 & 5 & 6 & 1 \\ 2 & 2 & 4 & 2 & 6 \\ 1 & 6 & 0 & 3 & 1 \end{array}\right)$$

(13)
$$\left(\begin{array}{cccc|c} 3 & 2 & 0 & 4 & 4 \\ 5 & 3 & 6 & 3 & 0 \\ 1 & 2 & 2 & 6 & 3 \end{array}\right)$$

(14)
$$\left(\begin{array}{cccc|c} 5 & 0 & 6 & 5 & 3 \\ 5 & 4 & 6 & 6 & 6 \\ 6 & 4 & 3 & 6 & 1 \end{array}\right)$$

(15)
$$\left(\begin{array}{cccc|c} 1 & 5 & 5 & 0 & 1 \\ 4 & 6 & 2 & 0 & 3 \\ 4 & 4 & 2 & 0 & 3 \end{array}\right)$$

(16)
$$\left(\begin{array}{cccc|c} 5 & 6 & 4 & 1 & 6 \\ 4 & 6 & 6 & 2 & 0 \\ 4 & 5 & 2 & 1 & 6 \end{array}\right)$$

(17)
$$\left(\begin{array}{cccc|c} 0 & 2 & 2 & 3 & 2 \\ 5 & 0 & 1 & 0 & 5 \\ 4 & 2 & 6 & 0 & 2 \end{array}\right)$$

(18)
$$\left(\begin{array}{cccc|c} 2 & 4 & 2 & 2 & 0 \\ 6 & 6 & 3 & 4 & 2 \\ 4 & 1 & 2 & 3 & 0 \end{array}\right)$$

(19)
$$\left(\begin{array}{cccc|c} 2 & 4 & 0 & 0 & 6 \\ 2 & 4 & 2 & 5 & 4 \\ 5 & 1 & 6 & 2 & 4 \end{array}\right)$$

(20)
$$\left(\begin{array}{cccc|c} 5 & 0 & 3 & 0 & 1 \\ 0 & 6 & 5 & 6 & 1 \\ 1 & 4 & 2 & 3 & 4 \end{array}\right)$$

(21)
$$\left(\begin{array}{ccccc|c} 3 & 0 & 1 & 0 & 0 & 2 \\ 3 & 6 & 3 & 5 & 4 & 5 \\ 1 & 3 & 6 & 5 & 4 & 5 \end{array}\right)$$

(22)
$$\left(\begin{array}{ccccc|c} 5 & 0 & 4 & 5 & 6 & 5 \\ 5 & 0 & 3 & 1 & 0 & 2 \\ 3 & 4 & 3 & 5 & 0 & 3 \end{array}\right)$$

(23)
$$\left(\begin{array}{ccccc|c} 1 & 3 & 0 & 1 & 2 & 3 \\ 6 & 6 & 4 & 2 & 6 & 5 \\ 1 & 1 & 4 & 3 & 6 & 3 \end{array}\right)$$

(24)
$$\left(\begin{array}{ccccc|c} 1 & 1 & 3 & 0 & 1 & 3 \\ 1 & 5 & 2 & 6 & 6 & 6 \\ 5 & 1 & 6 & 1 & 6 & 0 \end{array}\right)$$

(25)
$$\left(\begin{array}{ccccc|c} 6 & 6 & 3 & 4 & 6 & 3 \\ 2 & 3 & 1 & 4 & 0 & 3 \\ 2 & 4 & 6 & 3 & 4 & 2 \end{array}\right)$$

(26)
$$\left(\begin{array}{ccccc|c} 5 & 6 & 0 & 0 & 4 & 6 \\ 5 & 6 & 2 & 0 & 2 & 0 \\ 2 & 1 & 5 & 4 & 3 & 2 \end{array}\right)$$

(27)
$$\left(\begin{array}{ccccc|c} 1 & 5 & 1 & 0 & 6 & 5 \\ 3 & 4 & 2 & 6 & 0 & 4 \\ 3 & 3 & 0 & 0 & 2 & 2 \end{array}\right)$$

(28)
$$\left(\begin{array}{ccccc|c} 0 & 4 & 1 & 6 & 4 & 2 \\ 4 & 2 & 4 & 1 & 2 & 2 \\ 2 & 4 & 5 & 6 & 6 & 5 \end{array}\right)$$

(29)
$$\left(\begin{array}{ccccc|c} 1 & 2 & 1 & 2 & 5 & 0 \\ 3 & 5 & 2 & 5 & 2 & 5 \\ 5 & 1 & 0 & 5 & 6 & 4 \end{array}\right)$$

(30)
$$\left(\begin{array}{ccccc|c} 4 & 6 & 5 & 6 & 0 & 0 \\ 2 & 1 & 3 & 4 & 1 & 1 \\ 2 & 0 & 2 & 6 & 6 & 4 \end{array}\right)$$

Řešení ($\mathbb{Z}_7$):

(1) $(5,6,1)$
(2) $(4,2,0) + \langle(4,0,1)\rangle$
(3) $(1,3,2)$
(4) $(5,5,3)$
(5) $(6,0,1) + \langle(4,1,0)\rangle$
(6) $(0,5,2)$
(7) $(3,4,2)$
(8) $(0,4,3)$
(9) $(1,0,0) + \langle(3,5,1)\rangle$
(10) $(1,4,0) + \langle(5,6,1)\rangle$
(11) $(6,4,2,0) + \langle(3,0,3,1)\rangle$
(12) $(2,1,0,0) + \langle(0,3,5,1)\rangle$
(13) $(6,0,2,0) + \langle(3,4,2,1)\rangle$

(14) $(2,6,0,0) + \langle (3,0,1,0) \rangle$
(15) $(5,0,2,0) + \langle (0,0,0,1) \rangle$
(16) $(5,3,3,0) + \langle (1,6,0,1) \rangle$
(17) $(3,4,4,0) + \langle (2,5,4,1) \rangle$
(18) $(3,2,0,0) + \langle (2,4,3,1) \rangle$
(19) $(5,6,6,0) + \langle (6,4,1,1) \rangle$
(20) $(6,2,2,0) + \langle (2,1,6,1) \rangle$
(21) $(3,5,0,3,0) + \langle (0,0,0,2,1), (2,2,1,0,0) \rangle$
(22) $(0,2,3,0,0) + \langle (5,6,1,0,1), (5,5,3,1,0) \rangle$
(23) $(4,2,1,0,0) + \langle (1,6,2,0,1), (5,5,2,1,0) \rangle$
(24) $(5,0,4,0,0) + \langle (6,1,2,0,1), (5,2,0,1,0) \rangle$
(25) $(3,2,5,0,0) + \langle (6,2,3,0,1), (0,2,4,1,0) \rangle$
(26) $(4,0,4,4,0) + \langle (2,0,1,4,1), (3,1,0,0,0) \rangle$
(27) $(6,4,0,2,0) + \langle (3,1,0,6,1), (2,5,1,0,0) \rangle$
(28) $(2,1,5,0,0) + \langle (0,0,3,0,1), (4,6,5,1,0) \rangle$
(29) $(5,0,2,0,0) + \langle (0,1,0,0,1), (6,0,6,1,0) \rangle$
(30) $(4,6,5,0,0) + \langle (6,0,5,0,1), (0,5,4,1,0) \rangle$