

SBÍRKA SOUSTAV

Řešte nad \mathbb{Q} :

(1)

$$\left(\begin{array}{ccc|c} -2 & -1 & -1 & -4 \\ -4 & -2 & -3 & -10 \\ 4 & 1 & -1 & 1 \end{array} \right)$$

(2)

$$\left(\begin{array}{ccc|c} -4 & 2 & -1 & -13. \\ -1 & -2 & -2 & -\frac{1}{2} \\ 2 & -2 & 5 & 18. \end{array} \right)$$

(3)

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

(4)

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

(5)

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

(6)

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

(7)

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

(8)

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

(9)

$$\left(\begin{array}{ccc|c} -2 & -1 & 2 & -4 \\ -2 & -1 & 3 & -5 \\ -3 & 4 & 2 & -16 \end{array} \right)$$

(10)

$$\left(\begin{array}{ccc|c} -1 & 3 & -1 & -8. \\ -1 & -5 & 4 & 14. \\ -2 & 4 & -4 & -17. \end{array} \right)$$

(11)

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

(12)

$$\left(\begin{array}{ccc|c} -1 & 3 & -2 & 2 \\ -4 & -2 & -5 & -17 \\ 1 & 1 & 3 & 7 \end{array} \right)$$

(13)

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

(14)

$$\left(\begin{array}{ccc|c} -1 & 3 & -2 & 2 \\ 3 & -3 & -2 & -10 \\ -2 & 1 & 3 & 8 \end{array} \right)$$

(15)

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

(16)

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

(17)

$$\left(\begin{array}{ccc|c} -4 & 2 & 3 & -0.5 \\ 1 & -1 & -1 & -0.5 \\ -5 & 1 & -2 & -5. \end{array} \right)$$

(18)

$$\left(\begin{array}{ccc|c} 3 & -2 & 5 & -2. \\ -2 & 2 & -2 & -3. \\ -1 & -3 & 2 & 2.5 \end{array} \right)$$

(19)

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

(20)

$$\left(\begin{array}{ccc|c} -4 & 2 & 1 & -4. \\ 2 & -1 & -2 & 0.5 \\ 3 & 5 & -2 & -1.5 \end{array} \right)$$

(21)

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

(22)

$$\left(\begin{array}{ccc|c} 4 & 4 & -3 & -7 \\ 3 & 1 & -1 & 0 \\ 2 & -3 & 2 & 10 \end{array} \right)$$

ŘEŠENÍ

- (1) $(\frac{1}{2}, 1, 2)$
- (2) $(\frac{3}{2}, -\frac{5}{2}, 2)$
- (3) $(-\frac{1}{2}, 2, \frac{1}{2})$
- (4) $(0, 1, -1)$
- (5) $(1, 1, -2)$
- (6) $(1, 1, 1)$
- (7) $(-2, 1, \frac{1}{2})$
- (8) $(-1, -\frac{5}{2}, \frac{1}{2})$
- (9) $(2, -2, -1)$
- (10) $(\frac{3}{2}, -\frac{3}{2}, 2)$
- (11) $(\frac{1}{2}, -1, \frac{1}{2}) + \langle (1, 7, 3) \rangle$
- (12) $(2, 2, 1)$
- (13) $(1, -\frac{3}{2}, -\frac{1}{2})$
- (14) $(0, 2, 2)$
- (15) $(-2, 1, -1)$
- (16) $(0, -\frac{3}{2}, -1)$
- (17) $(1, 1, \frac{1}{2})$
- (18) $(1, -\frac{5}{2}, -2)$
- (19) $(-1, -1, 1)$
- (20) $(1, -\frac{1}{2}, 1)$
- (21) $(-2, 1, 1)$
- (22) $(1, -2, 1)$