

12. 3. 2021 Matematika

1) Práce ze středy: PS str. 97/A3 d, e

$$\begin{array}{r} \text{d) } 3x + 3y = 0 \\ -3x + y = 4 \end{array}$$

$$\begin{array}{r} 4y = 4 \\ y = 1 \end{array}$$

$$\begin{array}{r} 3x + 3 \cdot 1 = 0 \\ 3x = -3 \\ x = -1 \end{array}$$

$$\begin{array}{l} L_1 = 3 \cdot (-1) + 3 \cdot 1 = 0 \\ P_1 = 0 \\ L_1 = P_1 \\ L_2 = -3 \cdot (-1) + 1 = 4 \\ P_2 = 4 \\ L_2 = P_2 \end{array}$$

$$\begin{array}{r} \text{e) } 0,2x + 0,1y = 0,4 \quad / \cdot 10 \\ 0,4x + 0,3y = 0,6 \quad / \cdot 10 \end{array}$$

$$\begin{array}{r} 2x + y = 4 \quad / \cdot (-2) \\ 4x + 3y = 6 \\ -4x - 2y = -8 \\ 4x + 3y = 6 \\ y = -2 \end{array}$$

$$\begin{array}{r} 2x - 2 = 4 \\ 2x = 6 \\ x = 3 \end{array}$$

$$\begin{array}{l} L_1 = 0,2 \cdot 3 + 0,1 \cdot (-2) = 0,6 - 0,2 = 0,4 \\ P_1 = 0,4 \\ L_1 = P_1 \\ L_2 = 0,4 \cdot 3 + 0,3 \cdot (-2) = 1,2 - 0,6 = 0,6 \\ P_2 = 0,6 \\ L_2 = P_2 \end{array}$$

98/ A4 b

$$\begin{array}{r} \text{b) } x - y + 2 = 0 \quad / \cdot (-1) \\ 3x = y \end{array}$$

$$\begin{array}{r} -x + y = 2 \\ 3x - y = 0 \\ 2x = 2 \\ x = 1 \end{array}$$

$$\begin{array}{r} y = 3 \cdot 1 \\ y = 3 \end{array}$$

$$\begin{array}{l} L_1 = 1 - 3 + 2 = 0 \\ P_1 = 0 \\ L_1 = P_1 \\ L_2 = 3 \cdot 1 = 3 \\ P_2 = 3 \\ L_2 = P_2 \end{array}$$

2) Řešení soustavy dvou lineárních rovnic

PS str. 98/A4 c, d

99/ A5 c, d

