

1 Systémy lineárnych rovníc

Príklady

Nájdite všetky riešenia systému lineárnych rovníc

1.

$$\begin{aligned}2x + 2z &= 20 \\3x + 2y + 7z &= 44 \\y + 3z &= 10\end{aligned}$$

2.

$$\begin{aligned}6x - y + 2z &= 21 \\3x + 2y - 3z &= -3 \\5x + y - z &= 10\end{aligned}$$

3.

$$\begin{aligned}x - 4y + z &= 18 \\2x - 7y - 2z &= 4 \\4x - 13y - 8z &= -24\end{aligned}$$

4.

$$\begin{aligned}5x - y + 2z + 10w &= 0 \\-x + 2y + 6z - 5w &= 9 \\9x + 12y + 5z + 13w &= 1 \\-2x - 5y - 20z + 5w &= 7\end{aligned}$$

5.

$$\begin{aligned}2x + y - z - w &= 3 \\3x - 2y + 2z - 5w &= 1 \\-x - y - z &= -2 \\5x - y + z - 6w &= 4\end{aligned}$$

6.

$$\begin{aligned}x + 4y - z &= 0 \\3x + y - 2z &= 0 \\2x + 9y + 2z &= 0\end{aligned}$$

7.

$$\begin{aligned}7x + 3y + 6z - w &= 0 \\3x + 2y + z + w &= 0 \\-x + y - z + 2w &= 0 \\3x + 2y - 2z + 2w &= 0\end{aligned}$$

8.

$$\begin{aligned}3x + y - 2z &= 0 \\2x - 3y + 5z &= 14 \\4x - 2y + 2z &= 10\end{aligned}$$