

Sústavy 3 rovníc o 3 neznámych

Riešte v RxRxR dosadzovacou metódou

$$\begin{aligned} 1. \quad & x + 2y + 3z = 14 \\ & 3x + 2y + z = 10 \\ & 3x + y + 2z = 11 \end{aligned}$$

$$\begin{aligned} 2. \quad & x + z = 14 \\ & 2x + 3y + z = 21 \\ & -2x + 2y + 2z = -14 \end{aligned}$$

$$\begin{aligned} 3. \quad & x + 2y - z = 1 \\ & 2x + 3y + z = 2 \\ & x + 3y - 2z = 1 \end{aligned}$$

$$\begin{aligned} 4. \quad & x + 2y - z = 1 \\ & 2x + 3y + z = 2 \\ & x + 3y - 2z = 1 \end{aligned}$$

Riešte v RxRxR Gaussovou-eliminačnou metódou

$$\begin{aligned} 5. \quad & x + y + 2z = 0 \\ & x - 2y + z = 0 \\ & -x + 2y + 2z = 0 \end{aligned}$$

$$\begin{aligned} 6. \quad & x + 2y - z = 1 \\ & 2x + 3y + z = 2 \\ & x + y + 2z = 1 \end{aligned}$$

$$\begin{aligned} 7. \quad & x + y + 2z = 4 \\ & x - 2y + z = 0 \\ & x - 5y = -4 \end{aligned}$$

$$\begin{aligned} 8. \quad & 2x - y + z = 0 \\ & x + 2y - 2z = 0 \\ & 3x + y - z = 0 \end{aligned}$$

$$\begin{aligned} 9. \quad & x + 2y - z = 1 \\ & 2x + 3y + z = 2 \\ & x + y + 2z = -1 \end{aligned}$$

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

$$\begin{aligned} 11. \quad & 5x - 2z = -4 \\ & 2x - 3y + z = -1 \\ & 5x - 2y + z = 0 \end{aligned}$$

$$\begin{aligned} 12. \quad & x + 2y + 3z = 14 \\ & 3x + 2y + z = 10 \\ & 3x + y + 2z = 11 \end{aligned}$$

$$\begin{aligned} 13. \quad & x + z = 14 \\ & 2x + 3y + z = 21 \\ & -2x + 2y + 2z = -14 \end{aligned}$$

$$\begin{aligned} 14. \quad & x + 2y - z = 1 \\ & 2x + 3y + z = 2 \\ & x + 3y - 2z = 1 \end{aligned}$$

Riešte v RxRxR sčítacou metódou

$$\begin{aligned} 15. \quad & x + y + z = 6 \\ & 2x + y - 2z = -2 \\ & x - 2y + 3z = 6 \end{aligned}$$

$$\begin{aligned} 16. \quad & x + y + 2z = 0 \\ & x - 2y + z = 0 \\ & -x + 2y + 2z = 0 \end{aligned}$$

$$\begin{aligned} 17. \quad & x + 2y - z = 1 \\ & 2x + 3y + z = 2 \\ & x + y + 2z = -1 \end{aligned}$$

$$\begin{aligned} 18. \quad & 2x - y + z = 0 \\ & x + 2y - 2z = 0 \\ & 3x + y - z = 0 \end{aligned}$$

Riešte v RxRxR pomocou determinantu tretieho stupňa

$$\begin{aligned} 19. \quad & x + y + z = 6 \\ & 2x + y - 2z = -2 \\ & x - 2y + 3z = 6 \end{aligned}$$

$$\begin{aligned} 20. \quad & 2x - y + z = 0 \\ & x + 2y - 2z = 0 \\ & 3x + y - z = 0 \end{aligned}$$

$$\begin{aligned} 21. \quad & x + 2y + 3z = 14 \\ & 3x + 2y + z = 10 \\ & 3x + y + 2z = 11 \end{aligned}$$

$$\begin{aligned} 22. \quad & x + y + 2z = 4 \\ & x - 2y + z = 0 \\ & x - 5y = 2 \end{aligned}$$