

6.3 Cvičení

1. Dané soustavy řešte Gaussovou (Gaussovou–Jordanovou) eliminací:

$$\begin{array}{lll} \text{a)} & 2x - y + 3z = 5, & \text{b)} \quad x + y + z = 0, \\ & 4x + y = 13, & \quad x - y + z = 2, \\ & 3x + 4z = 4, & \quad x - y - z = 10, \end{array} \quad \text{c)} \quad \begin{array}{l} x + 2y - z = 0, \\ -x + y = 5, \\ x + 2z = 6, \end{array}$$

$$\begin{array}{lll} \text{d)} & x - 2y + z = 9, & \text{e)} \quad x + 2y + 3z = 3, & \text{f)} \quad 2x + y + z = 3, \\ & 3x + y = 1, & \quad 2x + 3y + 4z = 2, & \quad 4x + 3z = 5, \\ -2x - 3y - z = 0, & & -3x - 5y + 2z = 4, & \quad 3x + 2y = 1. \end{array}$$

$$\begin{array}{l} \text{g)} \quad 2x - y - 2z = 5, \\ \quad 3x - y = 1, \\ \quad 5x + 4z = -2. \end{array}$$