

## Sustav linearnih jednačbi

1) Provjeri je li uređeni par  $(2, -1)$  rješenje sustava:

$$\begin{array}{l} 3x + y = 5 \\ \underline{2x - 5y = -9} \end{array}$$

2) Provjeri je li uređeni par  $(3, -2)$  rješenje sustava:

$$\begin{array}{l} 5x + 3y = 9 \\ \underline{-3x + 4y + 9 = -8} \end{array}$$

3) Metodom supstitucije riješi sustav:

$$\begin{array}{lll} \text{a) } x - 4y = -17 & \text{b) } 5x - 2y + 13 = 0 & \text{c) } 2x + 3y = -2 \\ \underline{2x + 3y = -1} & \underline{x - 2y + 9 = 0} & \underline{3x - y + 14 = 0} \end{array}$$

4) Metodom supstitucije riješi sustav:

$$\begin{array}{lll} \text{a) } 2x - 3y = -1 & \text{b) } 3x + 4y = 1 & \text{c) } 8a - 7b = 16 \\ \underline{-4x + 2y = 6} & \underline{5x + 2y = 11} & \underline{5a - 7b = 10} \end{array}$$

5) Metodom suprotnih koeficijenata riješi sustav:

$$\begin{array}{lll} \text{a) } x + 2y = 10 & \text{b) } 5x - 2y + 13 = 0 & \text{c) } 7x + 4y = 31 \\ \underline{5x - 4y = 8} & \underline{3x + y - 1 = 0} & \underline{-2x + 5y = -15} \end{array}$$

6) Riješi sustav:

$$\begin{array}{ll} \text{a) } x + \frac{2}{3}y = \frac{20}{3} & \text{b) } \frac{1}{4}x - \frac{3}{5}y = \frac{17}{10} \\ \frac{3}{2}x + \frac{2}{3}y = \frac{14}{3} & -\frac{2}{3}x + \frac{1}{2}y = -\frac{7}{3} \end{array}$$

7) Riješi sustav:

$$\begin{array}{ll} \text{a) } 3(x - 2) - 2(1 - 3y) = 4 & \text{b) } 3(x - 2) - 2(2x + y - 3) = -9 \\ \underline{3(x - 3) - (y + 1) = -5} & \underline{5x + 2 = 3 - 4 \cdot (3x - y)} \end{array}$$

8) Riješi sustav:

$$\begin{array}{ll} \text{a) } \frac{3x - 2y}{5} + \frac{5x + 3y}{2} = \frac{29}{10} & \text{b) } 5(2x + y) - 3(2x - 4y - 1) = 7 - 7(x - 3y + 2) \\ \frac{4x + y}{4} - \frac{3x - 5y}{3} = \frac{-4x + 5y}{4} & 1 - \frac{y - 3}{2} + \frac{2x + 5y + 10}{6} = \frac{x - 2y + 6}{4} \end{array}$$