

Section 7.1

Solve the system of equations.

$$\begin{aligned} \text{ii) } x + y &= 7 \\ x - y &= 3 \end{aligned}$$

$$\begin{aligned} \text{13) } 3x - 2y &= 12 \\ 7x + 2y &= 8 \end{aligned}$$

$$\begin{aligned} \text{15) } 3u + 5v &= 15 \\ 6u + 10v &= -30 \end{aligned}$$

$$\begin{aligned} \text{17) } 3x - y &= -2 \\ -9x + 3y &= 6 \end{aligned}$$

$$\begin{aligned} \text{19) } x - y &= 4 \\ x + 3y &= 12 \end{aligned}$$

$$\begin{aligned} \text{21) } 4x + 3y &= 26 \\ 3x - 11y &= -7 \end{aligned}$$

$$\begin{aligned} \text{23) } 7m + 12n &= -1 \\ 5m - 3n &= 7 \end{aligned}$$

$$\begin{aligned} \text{25) } y &= 0.08x \\ y &= 100 + 0.04x \end{aligned}$$

$$\begin{aligned} \text{27) } \frac{2}{5}x + \frac{3}{2}y &= 2 \\ \frac{7}{3}x - \frac{5}{4}y &= -5 \end{aligned}$$

$$\begin{aligned} \text{29) } -2.3y + 4.1z &= -14.21 \\ 10.1y - 2.9z &= 26.15 \end{aligned}$$

Review Exercise

Solve the system using substitution or elimination by addition

$$\begin{aligned} \text{1) } 2x + y &= 7 \\ 3x - 2y &= 0 \end{aligned}$$

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

$$\begin{aligned} \text{3) } 4x - 3y &= -8 \\ -2x + \frac{3}{2}y &= 4 \end{aligned}$$