

SOLVING SYSTEMS

Solve each system using any method.

1.
$$\begin{aligned} 5x + 2y &= -1 \\ x - y &= -3 \end{aligned}$$

2.
$$\begin{aligned} 5x + 4y &= -1 \\ 4x - 2y &= 4 \end{aligned}$$

3.
$$\begin{aligned} 3x - y &= 11 \\ x - y &= 7 \end{aligned}$$

4.
$$\begin{aligned} 4x - 5y &= -4 \\ 6x + 10y &= 1 \end{aligned}$$

5.
$$\begin{aligned} 4x + y - z &= 10 \\ x - 2y + 3z &= -5 \\ 2x - y + 2z &= -1 \end{aligned}$$

6.
$$\begin{aligned} 2x + 3y - 5z &= -10 \\ -3x + 2y + z &= 2 \\ 5x - y + 3z &= 13 \end{aligned}$$

7.
$$\begin{aligned} x - y + z &= 6 \\ x - 2y + 3z &= 14 \\ 2x - y + 2z &= 10 \end{aligned}$$

8.
$$\begin{aligned} x + 2y + 3z &= 11 \\ 3x - y + z &= 8 \\ 2x + 2y - 3z &= -12 \end{aligned}$$

9.
$$\begin{aligned} x + 3y - z &= 1 \\ 4x - 5y + 2z &= 22 \\ -2x + 3z &= 1 \end{aligned}$$

10.
$$\begin{aligned} 2x + 3z &= 8 \\ -y + 2z &= 5 \\ x - 3y &= 4 \end{aligned}$$

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Answers

1. $(-1, 2)$
2. $\left(\frac{7}{13}, -\frac{12}{13}\right)$
3. $(2, -5)$
4. $\left(-\frac{1}{2}, \frac{2}{5}\right)$
5. $(2, -1, -3)$
6. $(1, 1, 3)$
7. $(1, -2, 3)$
8. $(1, -1, 4)$
9. $(4, 0, 3)$
10. $(1, -1, 2)$