

Corrective Assignment 8.3 (Elimination)

Solve each system by elimination.

1)
$$\begin{aligned} 4x + 3y &= 12 \\ 4x - 3y &= -12 \end{aligned}$$

2)
$$\begin{aligned} -x - 4y &= -10 \\ x - 2y &= -2 \end{aligned}$$

3)
$$\begin{aligned} 3x + y &= 10 \\ -x + y &= -2 \end{aligned}$$

4)
$$\begin{aligned} x - 4y &= 11 \\ x - 3y &= 9 \end{aligned}$$

5)
$$\begin{aligned} 4x - y &= -23 \\ -3x + 3y &= 24 \end{aligned}$$

6)
$$\begin{aligned} -2x + 6y &= -20 \\ -10x + 2y &= 12 \end{aligned}$$

$$7) \begin{aligned} 6x + 7y &= 21 \\ -4x - 3y &= -19 \end{aligned}$$

$$8) \begin{aligned} 5x - 6y &= 21 \\ 6x + 5y &= 13 \end{aligned}$$

$$9) \begin{aligned} -6x + 5y &= 1 \\ -5x - 2y &= 7 \end{aligned}$$

$$10) \begin{aligned} 3x - 4y &= -3 \\ -4x - 3y &= 4 \end{aligned}$$

11) Is the point $(0, 0)$ a solution of the system of linear equations below?

$$\begin{aligned} 2x - y &= 0 \\ 4x - 2y &= 2 \end{aligned}$$

12) Is the point $(1, 5)$ a solution of the system of linear equations below?

$$\begin{aligned} 4x + y &= 9 \\ 2x + 3y &= 17 \end{aligned}$$

Answers to Corrective Assignment 8.3 (Elimination)

1) $(0, 4)$
5) $(-5, 3)$
9) $(-1, -1)$

2) $(2, 2)$
6) $(-2, -4)$
10) $(-1, 0)$

3) $(3, 1)$
7) $(7, -3)$
11) No

4) $(3, -2)$
8) $(3, -1)$
12) Yes