

Assignment: Simulteneous Eq

Date _____

Solve each system by elimination.

1)
$$\begin{aligned} 4x - 4y &= 12 \\ x + 9y &= -17 \end{aligned}$$

2)
$$\begin{aligned} 7x - 2y &= 7 \\ -14x + y &= -14 \end{aligned}$$

3)
$$\begin{aligned} 5x - 8y &= 10 \\ 7x - 4y &= 14 \end{aligned}$$

4)
$$\begin{aligned} -7x + 10y &= -27 \\ -14x + 2y &= -18 \end{aligned}$$

5)
$$\begin{aligned} -7x - 2y &= -9 \\ -6x - 5y &= 12 \end{aligned}$$

6)
$$\begin{aligned} -5x + 4y &= -6 \\ 6x + 10y &= 22 \end{aligned}$$

7)
$$\begin{aligned} 7x + 7y &= 28 \\ -4x + 8y &= 20 \end{aligned}$$

8)
$$\begin{aligned} -5x - 4y &= 14 \\ 9x + 6y &= -18 \end{aligned}$$

Solve each system by substitution.

9)
$$\begin{aligned} -x - 3y &= -17 \\ x + 2y &= 10 \end{aligned}$$

10)
$$\begin{aligned} -x + y &= 4 \\ -5x + 6y &= 24 \end{aligned}$$

11)
$$\begin{aligned} y &= 3x + 14 \\ 3x - 2y &= -13 \end{aligned}$$

12)
$$\begin{aligned} -2x - y &= -13 \\ y &= -3x + 21 \end{aligned}$$

13)
$$\begin{aligned} -15x - 6y &= -8 \\ 5x + 2y &= -3 \end{aligned}$$

14)
$$\begin{aligned} -6x + 7y &= 5 \\ 7x - 6y &= -8 \end{aligned}$$

Answers to Assignment: Simulteneous Eq

1) $(1, -2)$

5) $(3, -6)$

9) $(-4, 7)$

13) No solution

2) $(1, 0)$

6) $(2, 1)$

10) $(0, 4)$

14) $(-2, -1)$

3) $(2, 0)$

7) $(1, 3)$

11) $(-5, -1)$

4) $(1, -2)$

8) $(2, -6)$

12) $(8, -3)$

