

5-3a Solving Systems by Elimination

Date _____ Period _____

Solve each system by elimination.

1)
$$\begin{aligned} 4x + 7y &= 9 \\ 2x - 7y &= -27 \end{aligned}$$

2)
$$\begin{aligned} x + 5y &= -12 \\ -x + 3y &= -12 \end{aligned}$$

3)
$$\begin{aligned} -7x - 3y &= 5 \\ 9x - 3y &= -27 \end{aligned}$$

4)
$$\begin{aligned} 5x + 5y &= 15 \\ 6x + 5y &= 8 \end{aligned}$$

5)
$$\begin{aligned} -9x - 24 &= 3y \\ 16 - y &= -9x \end{aligned}$$

6)
$$\begin{aligned} 17 &= -4y - 5x \\ -7y - 5x - 11 &= 0 \end{aligned}$$

7)
$$\begin{aligned} 24y &= -84 - 6x \\ 2x &= -7y - 27 \end{aligned}$$

8)
$$\begin{aligned} 7y + 14 &= -x \\ 0 &= -1 - \frac{5}{28}x + \frac{1}{4}y \end{aligned}$$

9)
$$\begin{aligned} 3x - y &= 9 \\ 2x - y &= 5 \end{aligned}$$

10)
$$\begin{aligned} -9x + 7y &= -9 \\ -9x + 5y &= 9 \end{aligned}$$

11)
$$\begin{aligned} -x - 2y &= -1 \\ x + 9y &= -20 \end{aligned}$$

12)
$$\begin{aligned} -3x - 9y &= -3 \\ 6x + 9y &= -3 \end{aligned}$$

13)
$$\begin{aligned} 0 &= 19 + 6y - 7x \\ 0 &= -1 - \frac{3}{7}y + \frac{1}{7}x \end{aligned}$$

14)
$$\begin{aligned} 2y &= -4x - 14 \\ y + 3x &= -13 \end{aligned}$$