

Solving Systems of Equations by Elimination Practice Worksheet B

Name _____ Class Period _____

Solve each of the following using the method of elimination:

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

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

3.
$$\begin{aligned} 3x + y &= 1 \\ 2x + 3y &= -11 \end{aligned}$$

4.
$$\begin{aligned} x + y &= 1 \\ 3x - y &= 11 \end{aligned}$$

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

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

7.
$$\begin{aligned} 5x - 3y &= -14 \\ 3x + 2y &= 3 \end{aligned}$$

8.
$$\begin{aligned} 9x + 6y &= 12 \\ 8x + 3y &= 13 \end{aligned}$$

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

10. $2x + 5y = -2$
 $5x - 2y = 24$

11. $5x + 3y = 5$
 $3x + 2y = 4$

12. $2x + 8y = 24$
 $x - 2y = 0$

Find the error and rework the problem correctly.

13.

$$\begin{array}{r} 5x+8y=1 \\ -2x+8y=-6 \\ \hline 7x=7 \\ \frac{7}{7} \quad \frac{7}{7} \\ x=1 \\ -2(1)+8y=-6 \\ 2+8y=-6 \\ -2 \quad -2 \\ \hline 8y=-8 \\ \frac{8}{8} \quad \frac{-8}{8} \\ y=-1 \end{array} \quad \boxed{(1,-1)}$$

14.

$$\begin{array}{r} 8x-4y=5 \\ + \quad -3x-6y=-5 \\ \hline -2y=-10 \\ \frac{-2}{-2} \quad \frac{-10}{-2} \\ y=5 \\ 3x-4(5)=-5 \\ 3x-20=-5 \\ 3x-20=-5 \\ +20 \quad +20 \quad \boxed{(5,5)} \\ \hline 3x=15 \\ \frac{3x}{3} = \frac{15}{3} \quad x=5 \end{array}$$