

Solving Systems of Linear Equations using *Elimination*_2

Name:

Period:

Solve the following systems using the *elimination method*. Show all of your work.

1.
$$\begin{aligned} 3x - y &= 30 \\ -3x + 7y &= 6 \end{aligned}$$

5.
$$\begin{aligned} 4x - 3y &= 8 \\ 5x - 2y &= -11 \end{aligned}$$

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

6.
$$\begin{aligned} 12x - 7y &= -2 \\ -8x + 11y &= 14 \end{aligned}$$

3.
$$\begin{aligned} x + y &= 2 \\ 2x + 7y &= 9 \end{aligned}$$

7.
$$\begin{aligned} 8x - 5y &= 11 \\ 4x &= 3y + 5 \end{aligned}$$

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

8.
$$\begin{aligned} 3x - 7y &= 5 \\ 9y &= 5x + 5 \end{aligned}$$

Solve the following system using the *substitution method*. Show all your work

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

10.
$$\begin{aligned} 0.5x + 0.6y &= 5.7 \\ y &= 2x + 1 \end{aligned}$$