

Homework 2 – Elimination Method

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Solve each system by elimination.

$$1. \begin{cases} 3x - 10y = -25 \\ 4x + 40y = 20 \end{cases}$$

$$2. \begin{cases} -7x + 21y = 32 \\ x - 3y - 20 = 0 \end{cases}$$

$$3. \begin{cases} x - 8y = 18 \\ -16x + 16y = -8 \end{cases}$$

$$4. \begin{cases} 24x + 2y = 52 \\ 6x + \frac{1}{2}y = 13 \end{cases}$$

$$5. \begin{cases} 88x - 5y = 39 \\ -8x + 3y = -1 \end{cases}$$

$$6. \begin{cases} 2x + 4y = 8 \\ 5x = -y - 7 \end{cases}$$

Solve - Choose Any Method!

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Solve each system by using substitution, elimination, or by graphing.

1.
$$\begin{cases} 7x + 3y = 10 \\ y = -7x - 2 \end{cases}$$

2.
$$\begin{cases} -y = 4x \\ 12x + 3y = -5 \end{cases}$$

3.
$$\begin{cases} 5x - 3y = 12 \\ 2x + 1.5y = 3 \end{cases}$$

4.
$$\begin{cases} y = 2x \\ y = x - 1 \end{cases}$$

5.
$$\begin{cases} 3x - 2y = 7 \\ 5x + 7y = 84 \end{cases}$$

6.
$$\begin{cases} x + y = 12 \\ 5x + 6y = 60 \end{cases}$$

7.
$$\begin{cases} 9x - 3y = 3 \\ -3x + y + 1 = 0 \end{cases}$$

8.
$$\begin{cases} -x + 12y = 16 \\ 4x - 3y = 26 \end{cases}$$