NAME

Module 10 Solving Systems of Linear Equations and Inequalities

Lesson 2 Solving Systems of Linear Equations by Elimination

Set 1

1. Solve:
$$\begin{cases} 4x + 8y = 6 \\ -4x - 16y = -9 \end{cases}$$
$$\left(\frac{3}{4}, \frac{3}{8}\right)$$

2. Solve:
$$\begin{cases} 2x + y = 26 \\ 2x - 2y = -10 \end{cases}$$
(7, 12)

3. Solve:
$$\begin{cases} -4y + 7x = -8 \\ 10x + 4y = 8 \end{cases}$$
(0, 2)

Set 2

1. Solve:
$$\begin{cases} 3x + 6y = -1 \\ 4x + 8y = 5 \end{cases}$$
The system of equations has no solution.

2. Solve:
$$\begin{cases} -7x + 8y = 1 \\ 3x - 7y = -4 \end{cases}$$
(1, 1)

3. Solve:
$$\begin{cases} 2x - 6y = -18 \\ -9x + 4y = 19 \end{cases}$$
(−3, −2)

4. Solve:
$$\begin{cases} 3x + 6y = 9 \\ 2x + 4y = 6 \end{cases}$$
The system of equations has an infinite number of solutions.

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410–467–3300