## NAME

## Module 10 Solving Systems of Linear Equations and Inequalities

## Lesson 2 Solving Systems of Linear Equations by Elimination

## DATE

## guided notes

## Lesson Objective

- Solve systems of equations using the elimination method.

A solution to a system of equations is an ordered pair $(x, y)$ that satisfies $\qquad$ the equations in the system.
(1) Solve:
$\left\{\begin{array}{l}x-8 y=-1 \\ 4 x-8 y=8\end{array}\right.$

Solve:
$\left\{\begin{array}{l}x+3 y=-20 \\ -x+y=0\end{array}\right.$
(3) Solve:

$$
\left\{\begin{array}{l}
7 x-y=0 \\
2 x+2 y=0
\end{array}\right.
$$

If a system of equations is solved by elimination and the result is a false statement containing no variables, the system of equations has
$\qquad$ solution.

If a system of equations is solved by elimination and the result is a true statement containing no variables, the system of equations has an
$\qquad$
(4) Solve:

$$
\left\{\begin{array}{l}
5 x-2 y=3 \\
2 x+7 y=48
\end{array}\right.
$$

(5) Solve:

$$
\left\{\begin{array}{l}
x-y=4 \\
2 x-2 y=8
\end{array}\right.
$$

Solve:

$$
\left\{\begin{array}{l}
x+2 y=3 \\
2 x+4 y=8
\end{array}\right.
$$

