## NAME

## Module 10 Solving Systems of Linear Equations and Inequalities

Lesson 1 Solving Systems of Linear Equations by Graphing

## DATE

## Lesson Objectives

- Determine whether a given ordered pair is a solution to a system of linear equations.
- Solve systems of two linear equations by graphing.
- Determine whether a system of linear equations is consistent, inconsistent, dependent, and/or independent.

A $\qquad$ of linear equations is a set of two or more linear equations that uses the same variables.

An ordered pair is a solution to a system of two equations if it satisfies
$\qquad$ equations.
(1)

Is $(-4,3)$ a solution to the system of linear equations? $\qquad$

$$
\left\{\begin{array}{l}
y=2 x+11 \\
y=5 x-19
\end{array}\right.
$$

(2) Is $(2,3)$ a solution to the system of linear equations? $\qquad$

$$
\left\{\begin{array}{l}
3 x+4 y=18 \\
2 x-y=1
\end{array}\right.
$$

A solution to a system of linear equations is a point of $\qquad$
of the graphs of the equations.
Slope-intercept form of a line is $\qquad$ where $m$ is
$\qquad$ and $b$ is $\qquad$ _.

[^0]If a system of linear equations has one and only one solution, the system is said to be

If a system of linear equations has no solution, the system is said to be $\qquad$
If a system of linear equations has an infinite number of solutions, the system is said to be
$\qquad$ ـ.
(3.) Solve by graphing:

$$
\left\{\begin{array}{l}
2 x+y=-2 \\
6 x+3 y=6
\end{array}\right.
$$


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    A system of linear equations with at least one solution is said to be
    $\qquad$ -.

