NAME

DATE

Module 10 Solving Systems of Linear Equations

and Inequalities

Lesson 3 Solving Systems of Linear Equations

by Substitution



Lesson Objective

• Solve systems of linear equations by substitution.

Methods of solving systems of linear equations:

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An ordered pair (x, y) is the solution to a system of two linear equations if it satisfies ______ equations.

A system of linear equations has either

zero, ______, or

_____ solutions.

If two expressions are ______one can be substituted for the other in any



1 Solve by substitution:

$$\begin{cases} y = 3 \\ 3x - 2y = 6 \end{cases}$$



Solve by substitution:

$$\begin{cases} y = x - 3 \\ x + y = 5 \end{cases}$$



Solve by substitution:

$$\begin{cases} 3x + 4y = 18 \end{cases}$$

$$2x - y = 1$$



Solve by substitution:

$$\int 3x + y = 2$$

$$6x + 2y = 7$$



Solve by substitution:

$$\int x = 3y + 7$$

$$x = 2y - 1$$

(Black plate)