

SECTION 5.2: SOLVING SYSTEMS OF EQUATIONS BY SUBSTITUTION

Homework: _____

Learning Targets:

- 5a. Understanding of how to determine the type of solution from a graph and algebraically
5b. Understanding how to determine the solution of a system by graphing, substitution, and elimination

1 solution

No Solution

Infinite Solutions

Steps on How to use substitution

1. Solve for a variable with **no** coefficient.
2. Plug that new equation into the other original equation.
3. Simplify and solve for the remaining variable.
4. Substitute that value into an original equation to solve for the remaining variable.

Examples: Solve the system of equations.

1. $x = 13 - 5y$
 $2x - 3y = 0$

2. $-3x + 3y = 4$
 $y = x + 3$