

Section 4.1: Solving Systems of Linear Equations in Two Variables

A **system of linear equations** consists of two or more linear equations.

A **solution** of a system of two equations in two variables is an ordered pair (x, y) that makes both equations true.

Three types of system of linear equations:

System	Solution	Types of Lines
Consistent	One Solution	Intersecting Lines
Inconsistent	No Solution	Parallel Lines
Dependent	Infinite number of solutions	Identical Lines

Ways to solve systems of linear equations in two variables:

1 Graphing

To Solve a System of Linear Equations by Graphing

1. Graph both linear equations on the same set of axes
2. Observe the point of intersection (if there is one).

Example 1: Solve the system by graphing.

