Section 5.1 Solving Systems of Linear Equations by Graphing

# Objective 1: Determining Whether an Ordered Pair is a Solution

A system of linear equations consists of two or more linear equations. In this course, we focus on solving systems of linear equations containing two equations in two variables.

Recall that a solution of an equation in two variables is an ordered pair that makes the equation true. A **solution of a system** of two equations in two variables is an ordered pair that makes both equations true.

Determine whether the ordered pair is a solution of the system .

# Objective 2: Solving Systems of Linear Equations by Graphing

Since a solution of a system of two equations in two variables is a solution common to both equations, it is also a point common to the graphs of both equations. We can estimate the solution(s) of a system of equations by graphing each equation on the same coordinate system and estimating the coordinates of any point of intersection.

a. Solve the system by graphing.



A system of two linear equations can have one solution, no solution, or infinitely many solutions.

Solve each system by graphing.

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| b. | c. |

