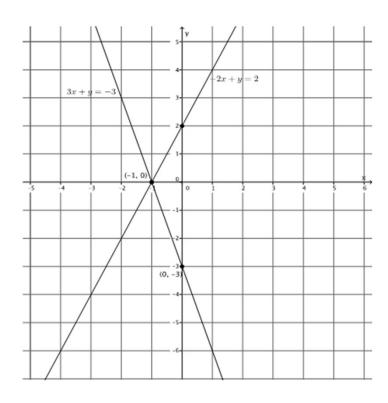
## System of Equations (Graphical Method)

a) Sketch the graphs of the linear system on a coordinate plane:  $\begin{cases} 3x + y = -3 \\ -2x + y = 2 \end{cases}$ 



b) Name the ordered pair where the graphs of the two linear equations intersect.

c) Verify that the ordered pair named in part (a) is a solution to 3x + y = -3.

d) Verify that the ordered pair named in part (a) is a solution to -2x + y = 2.

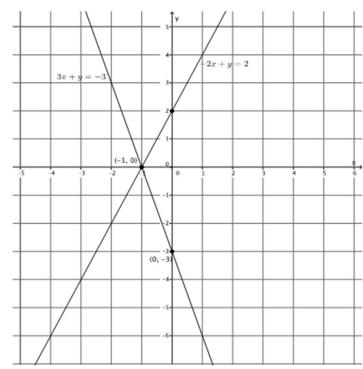
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## System of Equations (Graphical Method)

a) Sketch the graphs of the linear system on a coordinate plane:  $\begin{cases} 3x + y = -3 \\ -2x + y = 2 \end{cases}$ 

For the equation 3x + y = -3 3(0) + y = -3 y = -3The y-intercept point is (0, -3). 3x + 0 = -3 3x = -3 x = -1The x-intercept point is (-1, 0). For the equation -2x + y = 2: -2(0) + y = 2 y = 2The y-intercept point is (0, 2). -2x + 0 = 2

$$-2x = 2$$
$$-2x = 2$$
$$x = -1$$



The *x*-intercept point is (-1, 0)

b) Name the ordered pair where the graphs of the two linear equations intersect.

(-1,0)

c) Verify that the ordered pair named in part (a) is a solution to 3x + y = -3.

$$3(-1) + 0 = -3$$
  
 $-3 = -3$ 

## The left and right sides of the equation are equal.

d) Verify that the ordered pair named in part (a) is a solution to -2x + y = 2.

$$-2(-1) + 0 = 2$$
  
 $2 = 2$ 

The left and right sides of the equation are equal.

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