Name _____ Date _____

Solving Systems of Linear Equations by Graphing - Step-by-Step Lesson

Solve this system of equations by graphing.
First graph the equations and then determine the solution.

$y = -3x + 5$

$x = 2$

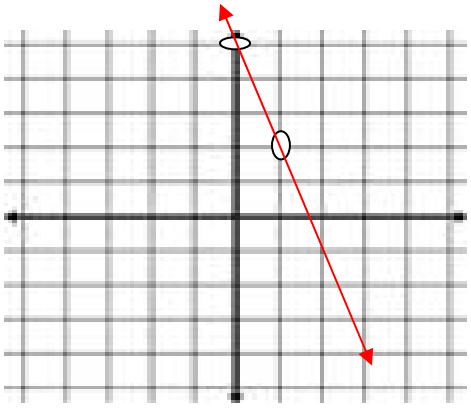
Explanation:

The first equation is $y = -3x + 5$

The y-intercept is 5. Plot the point (0, 5)

The slope is $\frac{-3}{1}$. Move down 3 and right 1 to find another point on the line.

Draw a line connecting them.



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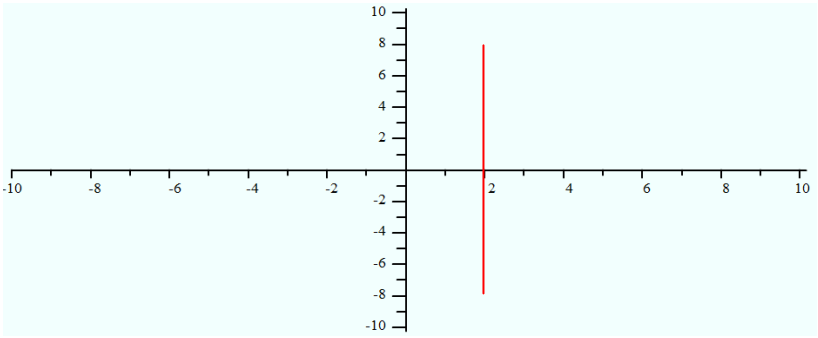
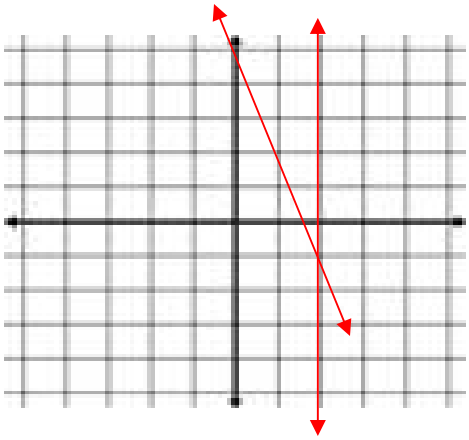
The second equation is x = 2.

This equation tells you that every x-value is 2. Plot some points that have an x-value of 2, like (2, 0) and (2, 2), and then draw a line connecting them.



Finally, identify the point of intersection.



The lines intersect at (2,-1), so the solution to the system of equation is:

(2,-1)