

Objective: SWBAT explain, verbally and in writing, what a system of equations is, what the solution means to the problem, and how to graph a system of equations.

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Warm Up:

1.  $\frac{3x+4}{2} - 2 = -6$

2.  $12 \div 3 - (3 + 2)^2$

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**Title: Graphing Systems of Equations**

**Date: October 22, 2015**

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If we wanted to graph  $y = \frac{1}{2}x + 3$ ;

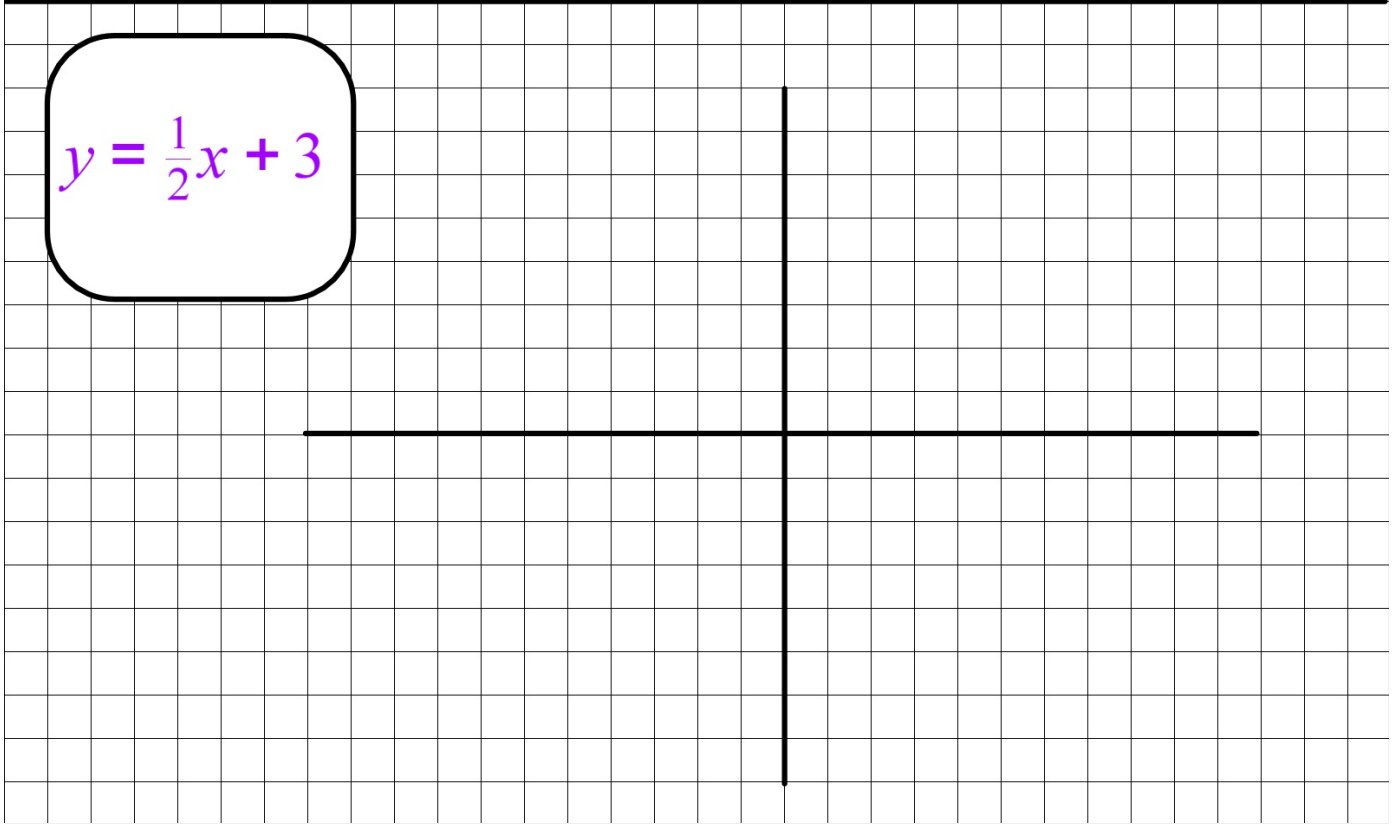
1. Where would the graph start on the y-axis?

The graph would start at 3 on the y-axis.  
This is the y-intercept.

2. What is the slope? and what does it tell us to do?

The slope is  $\frac{1}{2}$  and it tells us to go  
up 1 and right 2 from the y-intercept.

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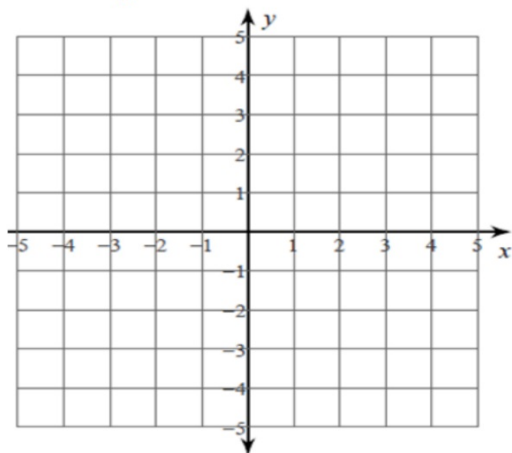
$$y = \frac{1}{2}x + 3$$


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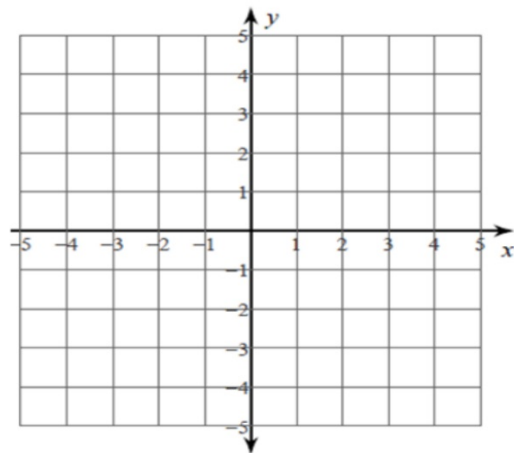
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Graph the following lines:

1.  $y = -3x + 4$

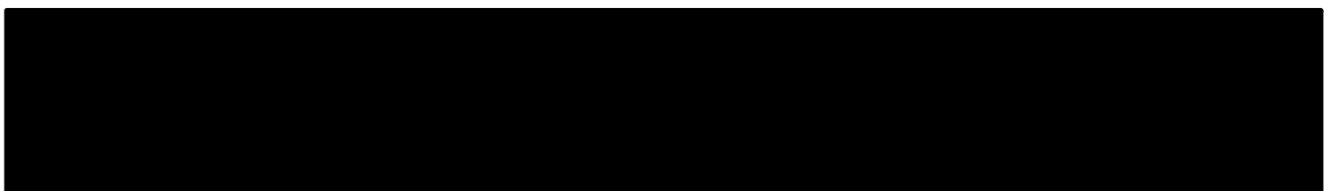


2.  $y = \frac{6}{5}x - 4$



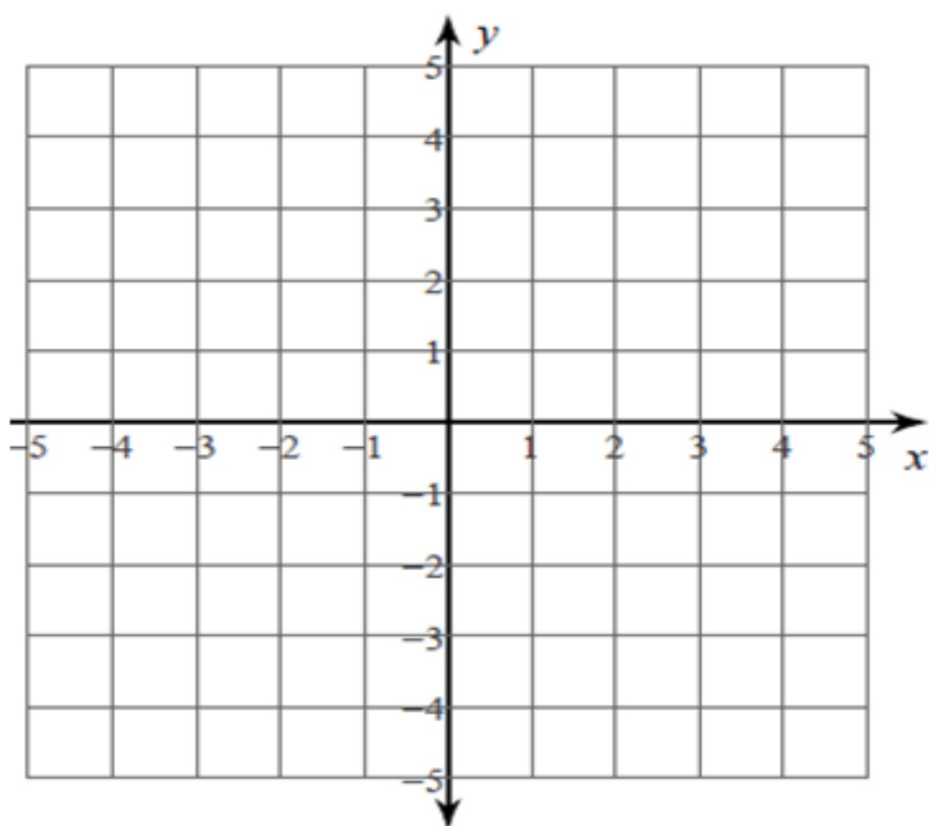
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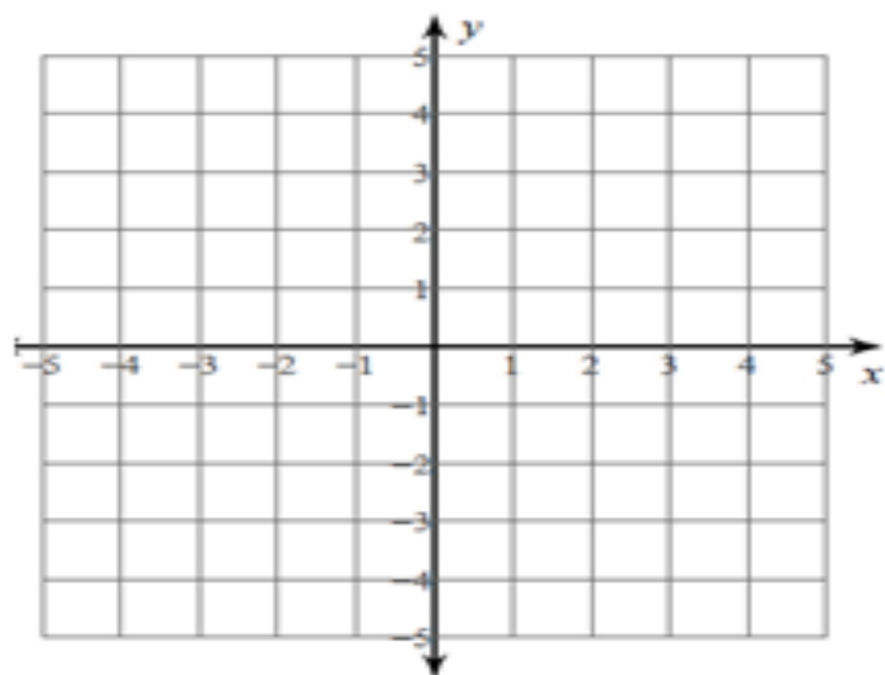
$$y = 4x + 3$$

$$y = -x - 2$$



$$y = -\frac{1}{2}x - 1$$

$$y = \frac{1}{4}x - 4$$





$$y = -2x + 2$$

$$y = -2x - 2$$

