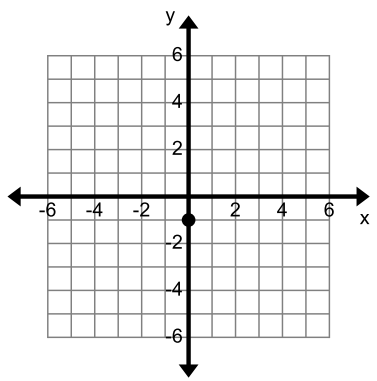
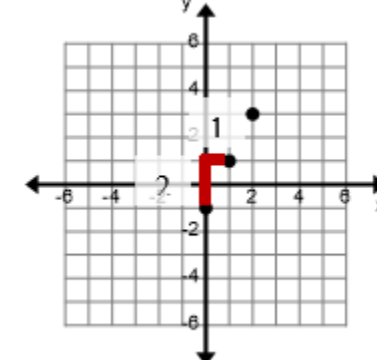
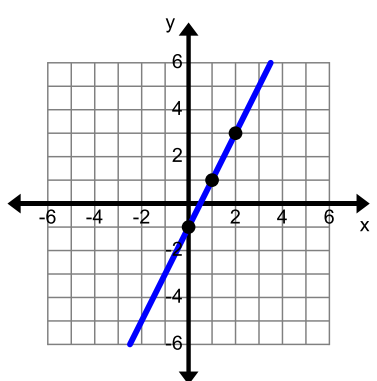
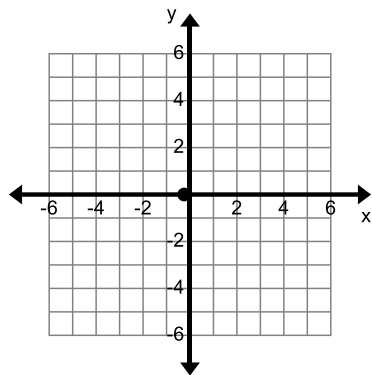


Graphing Linear Equations

Example 1: Graph the equation $y = 2x - 1$.

	<p>The equation is in slope-intercept form. Graph the y-intercept (0, -1) first.</p>
	<p>Use the slope to graph another point or two. The slope is $\frac{2}{1}$. That is a rise of 2 and a run of 1.</p>
	<p>Connect the points with a line.</p>

Example 2: Graph the equation $4x - y = -1$.



Find the x and y intercepts of the equation.

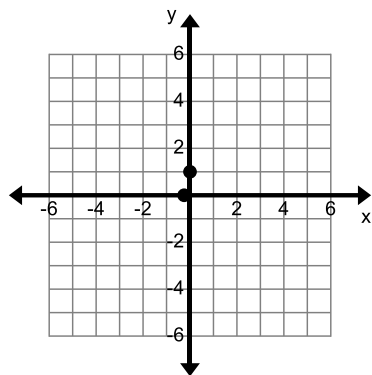
To find the x -intercept, substitute zero in for y and solve for x .

$$4x - 0 = -1$$

$$4x = -1$$

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

Graph the x -intercept: $(-\frac{1}{4}, 0)$



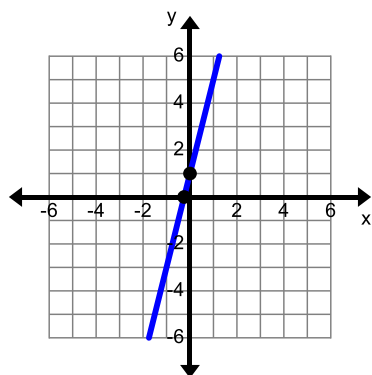
To find the y -intercept, substitute zero in for x and solve for y .

$$4(0) - y = -1$$

$$-y = -1$$

$$y = 1$$

Graph the x -intercept: $(0, 1)$



Draw a line connecting the x and y intercepts.