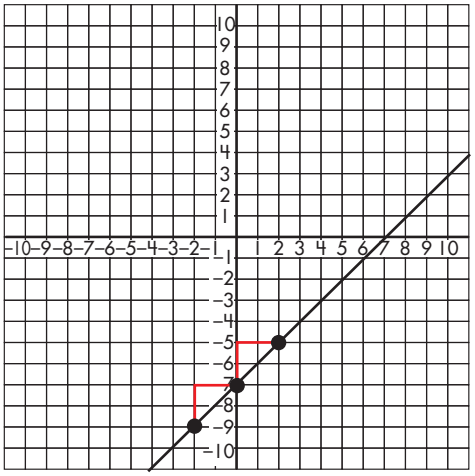
NAME _____

Lesson 4.9 Graphing Functions

The slope-intercept form of a linear function, $y = mx + b$, can be used to create a graph of that function.

$y = x - 7$



Step 1: Mark the point where the line will cross the y-axis ($b = -7$).

Step 2: From the point which crosses the y-axis, use the slope (m) to find other points on both sides. Remember that slope is found by $\frac{\text{change in } y}{\text{change in } x}$.

Step 3: Draw a line that goes directly through the points found.

Sketch each linear function shown.

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