Graphing Lines in Slope–Intercept Form

Given a linear equation in slope intercept form, $y = mx + b$, a complete graph includes:
(slope) *(0,b) is y intercept*

1. Identify the __slope: (m)__ and __y intercept: (0,b)__.
This is your __reasoning/justification__ for the graph you are drawing.
2. Completely label the graph with __scale__ and label the __axes__. *(draw if necessary!)*
3. Plot the __y-intercept__.
4. Use the __slope__ to plot at least __one other__ point.
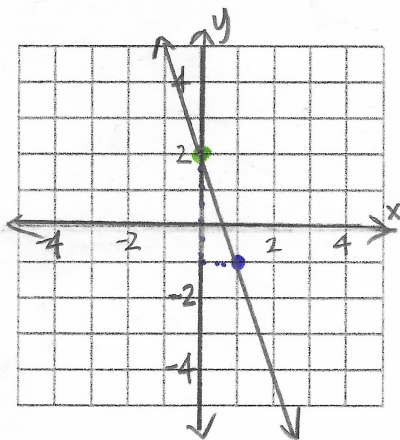5. Use a __ruler__ to draw the line. Be sure to draw __arrows__. *(assuming graph is CONTINUOUS!)*

Verify your slope is CONSISTANT!!

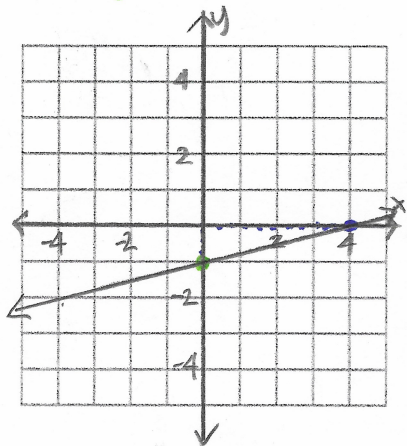Graph each line. Identify the slope and point. Completely label the graph.
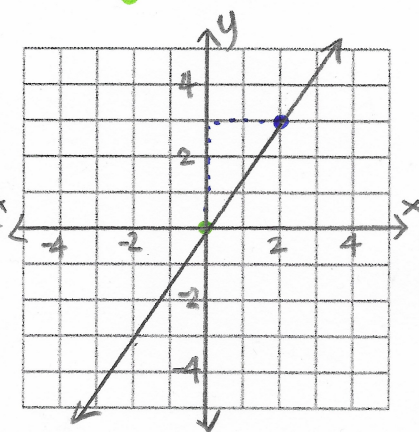
1. $y = -3x + 2$

$m = -3$
$y int: (0,2)$

2. $y = \dfrac{1}{4}x - 1$

$m = \dfrac{1}{4}$
$y int: (0,-1)$

3. $y = \dfrac{3}{2}x$

$m = \dfrac{3}{2}$
$y int: (0,0)$

Be sure scale is PRECISELY labeled! It communicates length!