

6.4 Slope-Intercept form of the Equation for a Linear Function

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Any linear function can be described in slope-intercept form to write an equation.

$$y = mx + b$$

$m = \text{slope}$
 $b = y\text{-intercept}$

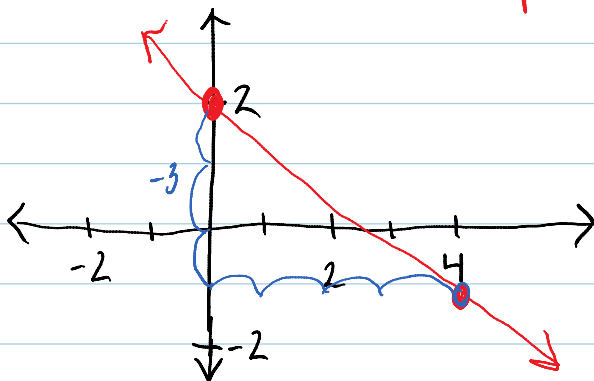
Ex. #1

The graph of a linear function has a slope $-\frac{7}{3}$ and y -intercept of 5. Write an equation for this function.

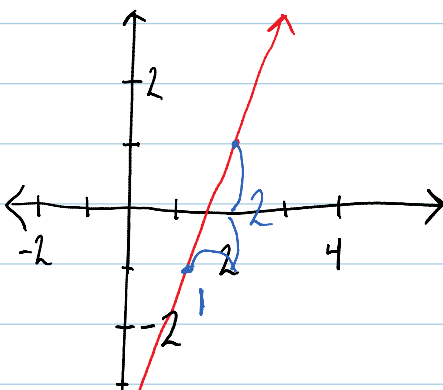
$$y = mx + b \rightarrow y = -\frac{7}{3}x + 5$$

Ex. #2 Graph $y = -\frac{3}{4}x + 2$

$\frac{3}{4}$ slope
 2 y -intercept

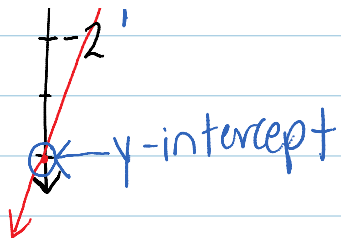


Ex. #3 Equation?



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

$$y = 2x - 3$$



$$y = mx + b$$

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