5.1. Slope-Intercept form

Graph Paper, But Not Required

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Recall: The Slope-Intercept form of the equation of a line is: $y = mx + b$ - generic equation

Where m = slope b = y-int.

Write the equation of the line with slope = 3 & y-int = 7

$y = mx + b$

$y = 3x + 7$

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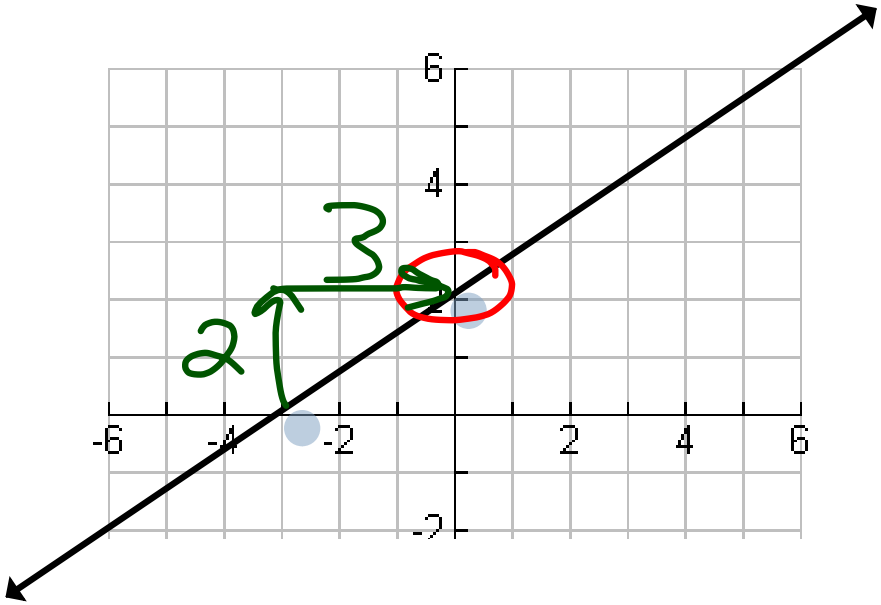
w/ y-int = −8 & $m = \frac{5}{2}$

$y = mx + b$

$y = \frac{5}{2}x + -8$

$y = \frac{5}{2}x - 8$

Write the equation of the line:



We know Slope Intercept

$y = mx + b$

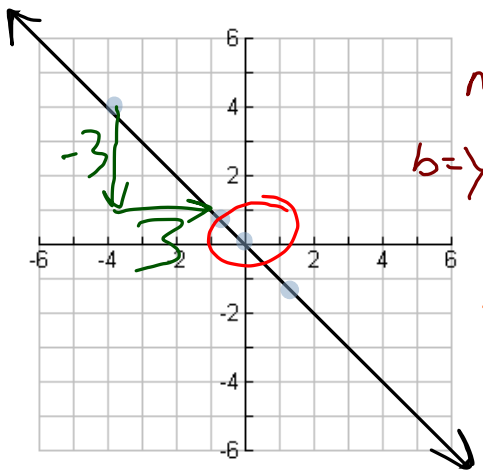
We need to know...

Slope = $\frac{2}{3}$

y-int. = 2

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

Write the equation of the line:



$m = \text{slope} = \frac{-3}{3} = -1$

$b = y\text{-int} = 0$

$y = mx + b$

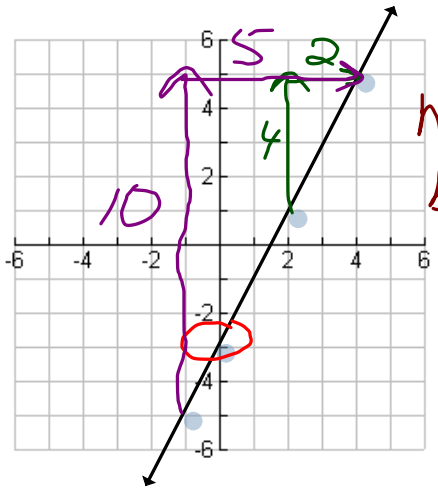
$y = -1x + 0$

$y = -1x$

or

$y = -x$

Write the equation of the line:



$y = mx + b$

m = slope = $\frac{4}{2} = 2$

b = y-int = -3

$y = mx + b$

$y = 2x + -3$

$y = 2x - 3$

O.T.L.

① Pg 272: 1-3, 13, 16, 18-25(a), 34-39(a)

22-25: write the slope, y-int, & the equation of the line.