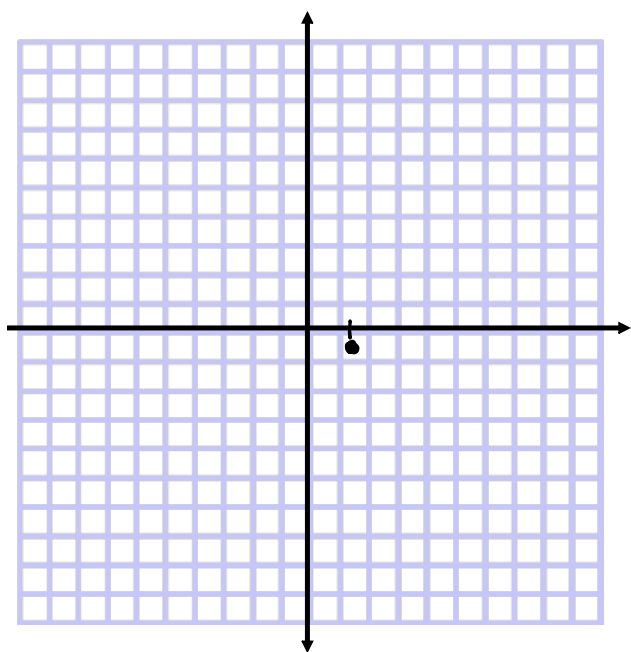


## Homework Review

$$f(x) = \underbrace{-x - 7}$$

$$\begin{aligned} f(-5) &= -(-5) - 7 \\ &= 5 - 7 \\ &= -2 \end{aligned}$$



$$d: \frac{3}{2}, \frac{5}{2}, \frac{1}{2}, \frac{-3}{2}$$

$$r: \frac{-1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}$$

28)

$$f(h) = 6h - \frac{2}{3}$$

$$f(-5) = 6(-5) - \frac{2}{3}$$

$$= 30 - \frac{2}{3}$$

$$= \frac{90}{3} - \frac{2}{3}$$

$$= \left( \frac{88}{3} \right)$$

$$f\left(\frac{1}{2}\right) = 6\left(\frac{1}{2}\right) - \frac{2}{3}$$

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

$$= \frac{9}{3} - \frac{2}{3} = \left( \frac{7}{3} \right)$$

$$f(x) = \frac{5}{6}x + \frac{1}{3}$$

$$\begin{aligned} f(-5) &= \frac{5}{6}(-5) + \frac{1}{3} \\ &= -\frac{25}{6} + \frac{2}{6} \\ &= \left( \frac{-23}{6} \right) \end{aligned}$$

### 2.3: Linear Functions

a linear function is a function that represents a line

slope-intercept form

$$y = mx + b$$

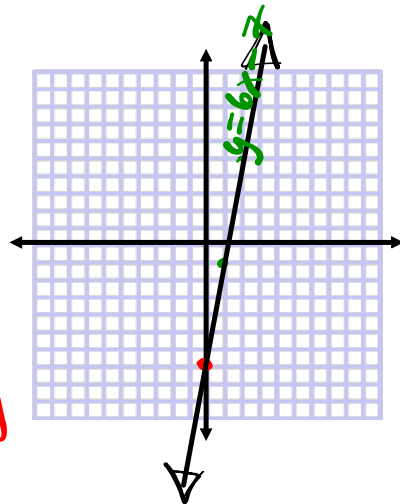
$m = \text{slope}$

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

$$y = 6x - 7$$

$m = 6$

$$\boxed{y\text{-int} = -7}$$

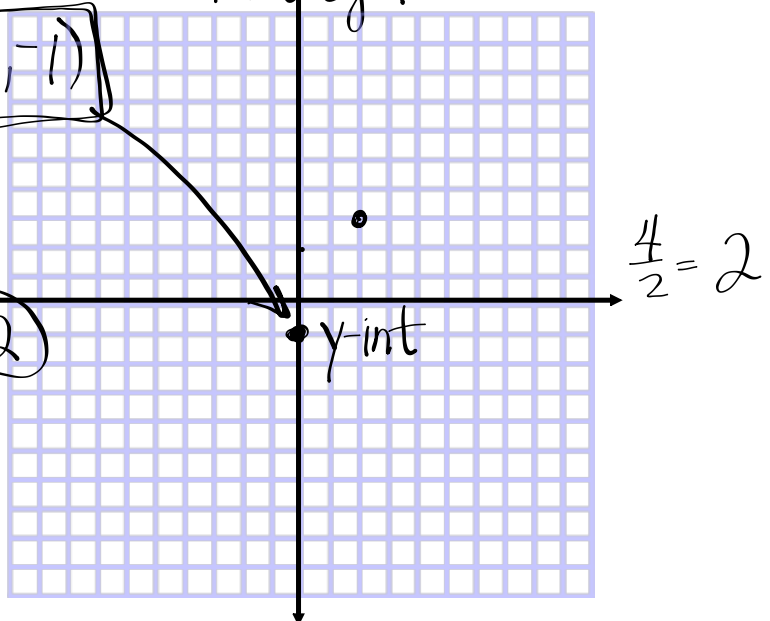


Write the equation of a line through points  $(2, 3)$  and  $(0, -1)$

$$y = -1$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-1 - 3}{0 - 2} = \frac{-4}{-2} = 2$$

$$\boxed{y = 2x - 1}$$



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