

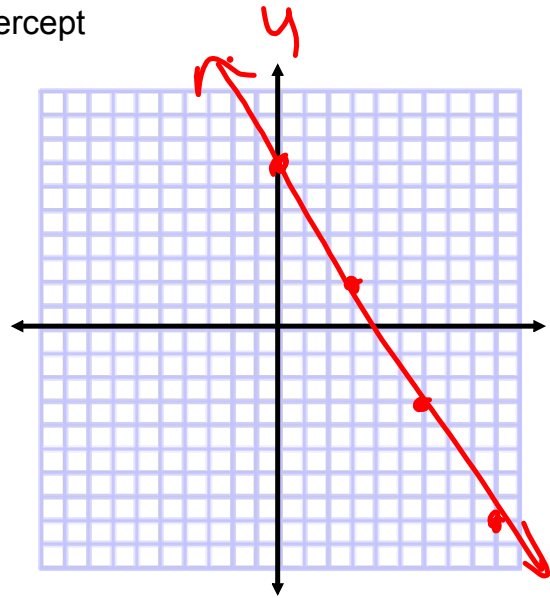
Linear Review

Graph the following using slope and y-intercept

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

slope \downarrow y-int

$-\frac{\text{rise}}{\text{run}}$



Graph the following using x and y-intercept

$$3x - 2y + 4 = 0$$

x-int
 $y = 0$

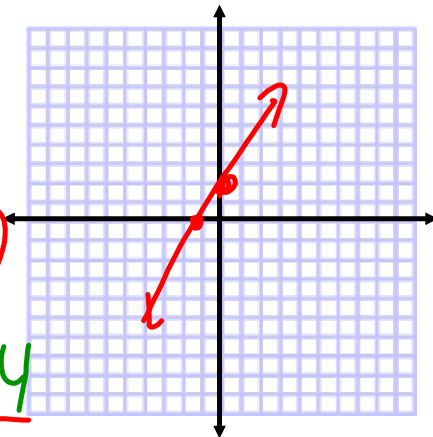
$$3x - 2(0) + 4 = 0 \quad -4$$

$$\frac{3x}{3} = \frac{-4}{3}$$

$$x = -\frac{4}{3}$$

y-int
 $x = 0$

$$\frac{-2y}{-2} = \frac{-4}{-2}$$
$$y = 2$$



Simplify

$$\underline{5x} + \underline{7} - \underline{2x} - \underline{9}$$

$$3x - 2$$

$$3(x + 4) - 2(x - 5)$$

$$= 3x + 12 - 2x + 10$$

$$= 1x + 22$$

Rearrange each equation to $y = mx + b$

$$2x - y = 6$$

$$x^{-1} - y = 6 - 2x^{x-1}$$

$$y = 2x - 6$$

$$14 + 7y = 2x - 14$$

$$\frac{7y}{7} = \frac{2x}{7} - \frac{14}{7}$$

$$y = \frac{2}{7}x - 2$$

Rearrange each equation to standard form ($ax + by + c = 0$)

$$y = 3x - 2$$

$$0 = 3x - y - 2$$

$$4 \times y = \frac{4 \times 1}{2} x + \frac{4 \times 3}{4}$$

$$4y = \frac{4}{2}x + \frac{12}{4}$$

$$4y = 2x + 3$$

$$0 = 2x - 4y + 3 = 0$$

Solve

$$x + 5 = 6 - 5$$

$$x = 1$$

$$4r + 6 = 7r - 9$$

$$15 = 3r$$

$$5 = r$$

$$2q - 3 = 4 + 3$$

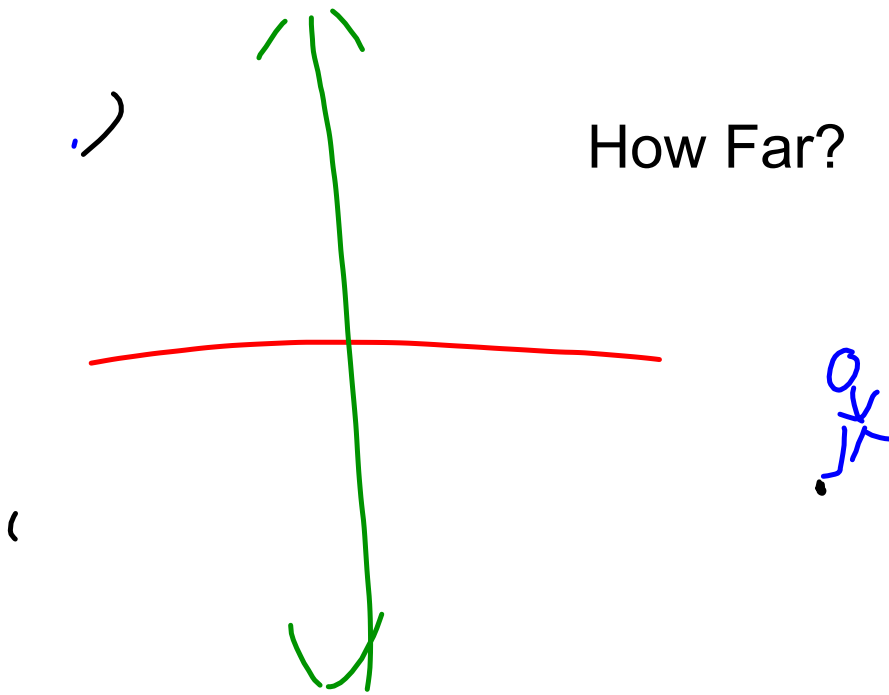
$$2q = 7$$

$$q = \frac{7}{2}$$

$$-3r = -15$$

$$r = 5$$

How Far?



pg. 5

2, 3, 5, 6, 7, 11