

5-16-17

Aim: SWBAT find the x- and y- intercepts of a linear equation graphically.

Do Now: What is the y-coordinate of every point on the x- axis?

HW: Pg. 608 # 3 - 8 (don't graph)

Quiz tomorrow (slope-intercept equation and graphing)

Test Wednesday of next week

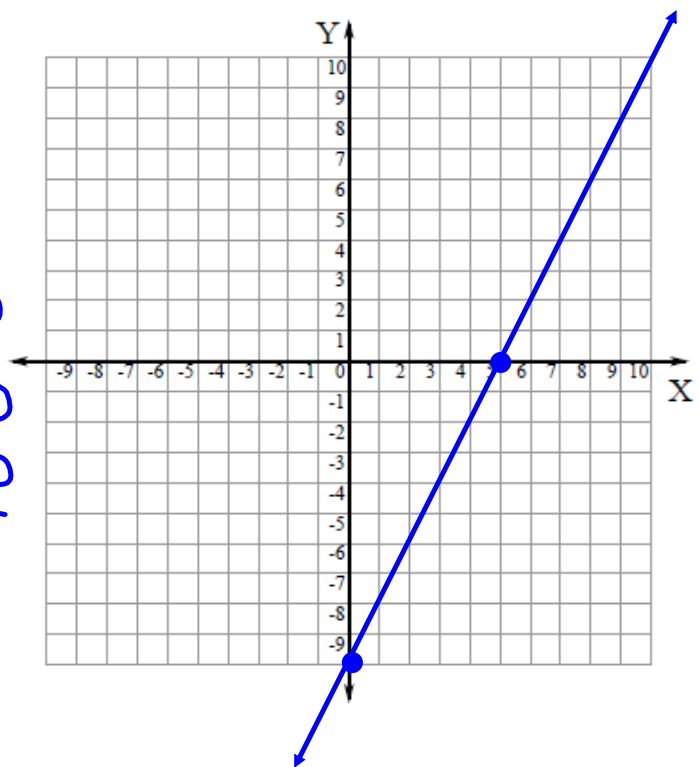
**Final Review Packet due June 2nd**

What is the y-coordinate of every point on the x-axis?

0

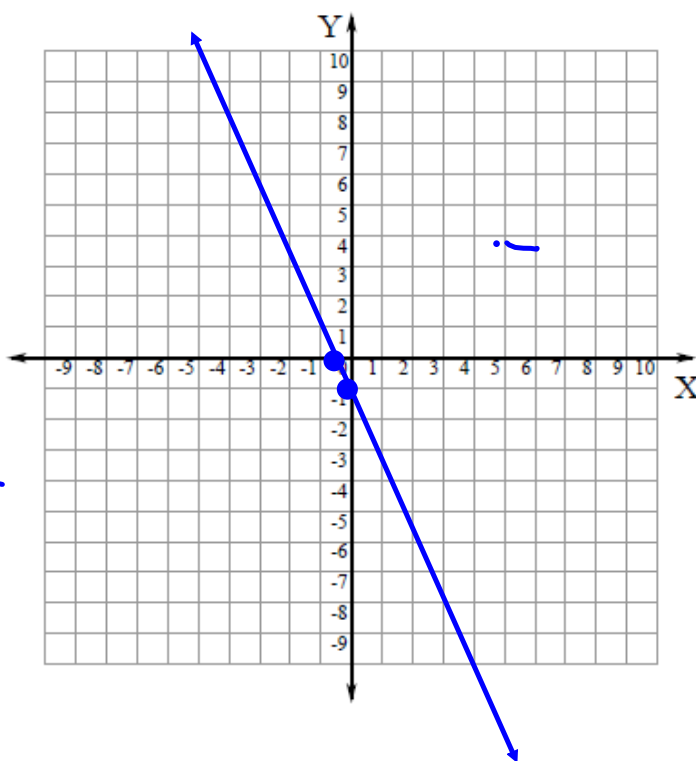
•  $y = 2x - 10$

y-int ( $x = 0$ )	x-int ( $y = 0$ )
$y = 2x - 10$ $y = 2 \cdot 0 - 10$ $y = 0 - 10$ $y = -10$ coord. of the y-int $(0, -10)$	$y = 2x - 10$ $0 = 2x - 10$ $+10 \quad +10$ <hr/> $10 = 2x$ $\frac{10}{2} = \frac{2x}{2}$ $5 = x$ coord. of the x-int $(5, 0)$



$$3x + y = -1$$

y-int (x = 0)	x-int (y = 0)
$3x + y = -1$ $3 \cdot 0 + y = -1$ $y = -1$ coord. of the y-int. $(0, -1)$	$3x + y = -1$ $3x + 0 = -1$ $3x = -1$ $x = -\frac{1}{3}$ coord. of the x-int. $(-\frac{1}{3}, 0)$



•  $5x + 3y = 18$

y-int (x = 0)	x-int (y = 0)
$5x + 3y = 18$ $5(0) + 3y = 18$ $\frac{3y}{3} = \frac{18}{3}$ $y = 6$ coord. of y-int $(0, 6)$	$5x + 3y = 18$ $5x + 3(0) = 18$ $5x = 18$ $\frac{5x}{5} = \frac{18}{5}$ $x = \frac{18}{5}$ coord. of $(\frac{18}{5}, 0)$ x-int

