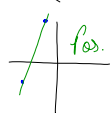


February 10, 2015  
 \* Exam #1 - Friday  
 February 20<sup>th</sup>!  
 • Review Wednesday  
 Prior

Feb 10-10:53 AM

$(-2, 14) \neq (-7, -5)$

①  ②  $m = \frac{(-5) - (14)}{(-7) - (-2)}$

$= \frac{-19}{-5} = \frac{19}{5}$

③  $14 = \frac{19}{5}(-2) + b$  ④  $y = \frac{19}{5}x + \frac{108}{5}$

$= -\frac{38}{5} + b$

$\frac{14}{1} + \frac{38}{5} = b$   $5y = 19x + 108$

$\frac{70 + 38}{5} = b$   $(-19x + 5y = 108)$

$\frac{108}{5} = b$   $19x - 5y = -108$

Feb 10-11:05 AM

⑤  $y = \frac{19}{5}x + \frac{108}{5}$

$(-7, -5)$

$-5 = \left[\frac{19}{5} \cdot \frac{-7}{1}\right] + \frac{108}{5}$

$-5 = \frac{-133}{5} + \frac{108}{5}$

$-5 = \frac{-133 + 108}{5} = \frac{-25}{5} = -5$

Feb 10-11:14 AM

$y = -2x + 4$  *Slope-Intercept Form*

*Rule*  
 $f(x) = -2x + 4 = \text{output}$


*Input* \* Finding the y & x *Intercepts*

a) y-int.:  $(0, b)$  or  $(0, y)$   
 $(0, 4)$

$f(0) = -2(0) + 4$   
 $= 0 + 4$   
 $= 4$

b) x-int.:  $(2, 0)$

$0 = -2x + 4$  *solve for x*  
 $\frac{-4}{-2} = \frac{-2x}{-2}$   
 $2 = x$



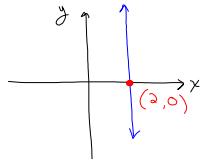
What is the Domain of "f"?  
 $(-\infty, \infty)$

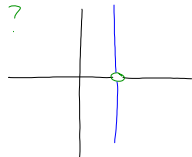
Feb 10-11:19 AM

$x = 2 \rightarrow x + 0y = 2$

*Domain?*  
 $[2]$

$(2) ?$





Feb 10-11:34 AM

$y = -3 \rightarrow 0x + y = -3$

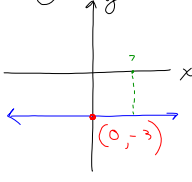
$\mathcal{D}: (-\infty, \infty)$

$(7, -3), (0, -3), (-8, -3)$

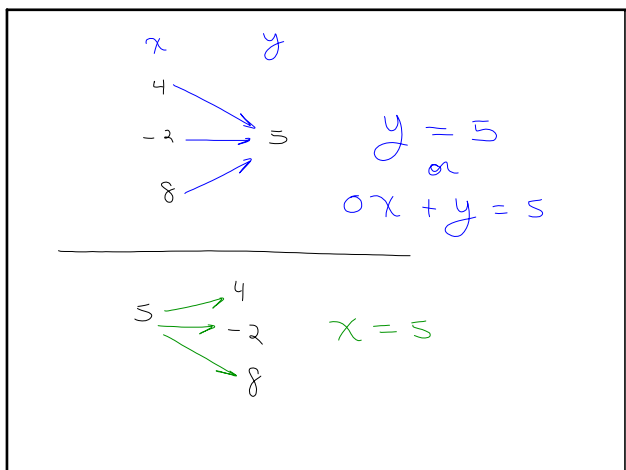
$x$   
 $y$

$7$   
 $0$   
 $-8$

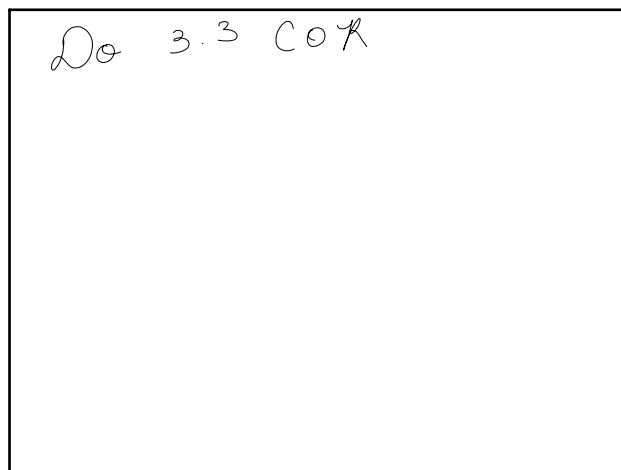
$-3$



Feb 10-11:41 AM



Feb 10-11:44 AM



Feb 10-11:46 AM