

October 16, 2017

\* Quiz #5 - Wed  
Linear Equations

WE #2

#9)  $(1, 2); m = \frac{7}{1}$

a)  $y = mx + b$   
 $2 = 7(1) + b$   
 $2 = 7 + b$   
 $-5 = b$   
 $y = 7x - 5$

$-7x + y = -5$

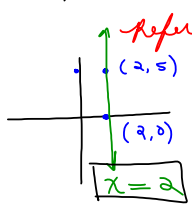
$7x - y = 5$

Oct 16-9:47 AM

WE #2

#14)  $(2, 5); m = \text{undefined}$

refer to Slope  $\neq 0$  #20



$m = \frac{(5) - (0)}{(2) - (2)} = \frac{0}{0}$

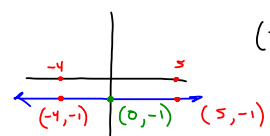
$\downarrow$   
und

$x + 0y = 2$   
 $x = 2$

Oct 16-10:07 AM

WE #1

#5)  $(-4, -1)$  &  $(0, -1)$

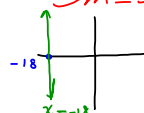


$m = \frac{(-1) - (-1)}{(0) - (-4)} = \frac{0}{4} = 0$

$y = mx + b$   
 $y = 0x - 1$   
 $y = -1$

Oct 16-10:06 AM

a)  $x = -18$  (Vertical line)  
 $m = \text{und}$

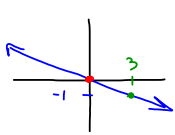


b)  $y = 8$  (Horizontal line)  
 $m = 0$

Oct 16-10:16 AM

WE #1

#8)  $(0, 0)$  &  $(3, -1)$



$m = \frac{(-1) - (0)}{(3) - (0)} = \frac{-1}{3} = -\frac{1}{3}$

$y = mx + b$   
 $y = -\frac{1}{3}x + 0$   
 $3y = -x + 0$   
 $x + 3y = 0$

Oct 16-10:19 AM

WE #2

#13)  $(2, -4); m = -\frac{1}{1}$

$y = mx + b$   
 $-4 = -1(2) + b$   
 $-4 = -2 + b$   
 $-2 = b$   
 $y = -x - 2$   
 $x + y = -2$

Oct 16-10:25 AM

Parallel Lines

#17)  $(4, 2)$ ; Parallel to  $y = \boxed{-\frac{3}{4}}x - 5$   
 $m = -\frac{3}{4}$

$y = mx + b$

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

$4y = -3x + 20$

$3x + 4y = 20$

Oct 16-10:28 AM

$(2, 0)$ ; parallel to  $y = \frac{1}{3}x + 3$   
 $m = \frac{1}{3}$

$0 = \frac{1}{3}(2) + b$   
 $0 = \frac{2}{3} + b$   $y = \frac{1}{3}x - \frac{2}{3}$   
 $-\frac{2}{3} = b$   $3y = x - 2$

$-x + 3y = -2$

$x - 3y = 2$

Oct 16-10:42 AM