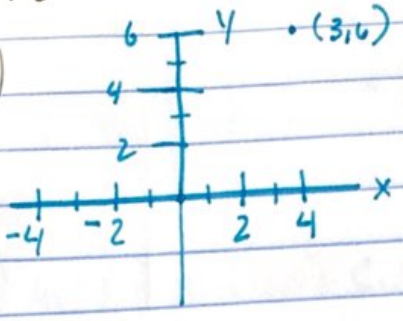
Marisa Lord

02/07/2020 - Week 5 - Assignment

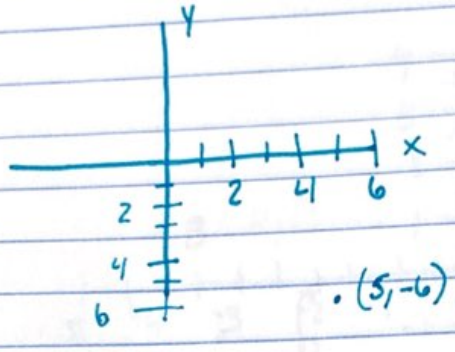
→ Page 443-444 9-23 odds

9)



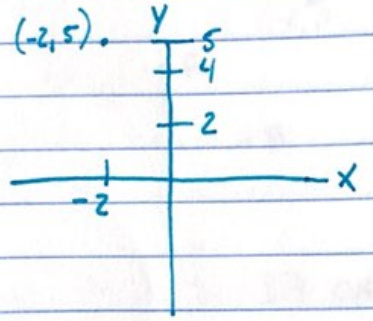
quadrant I

11)



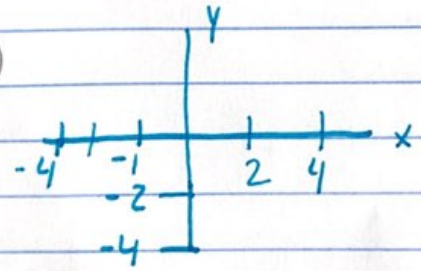
quadrant IV

13)



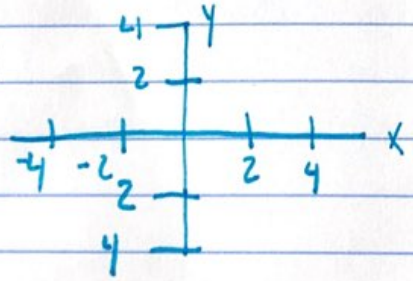
quadrant II

15)



won't graph since so large but that part would fall in quadrant III

17)



Again really large to graph but would fall in quadrant IV

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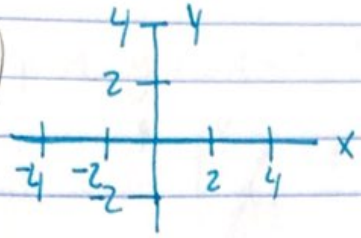
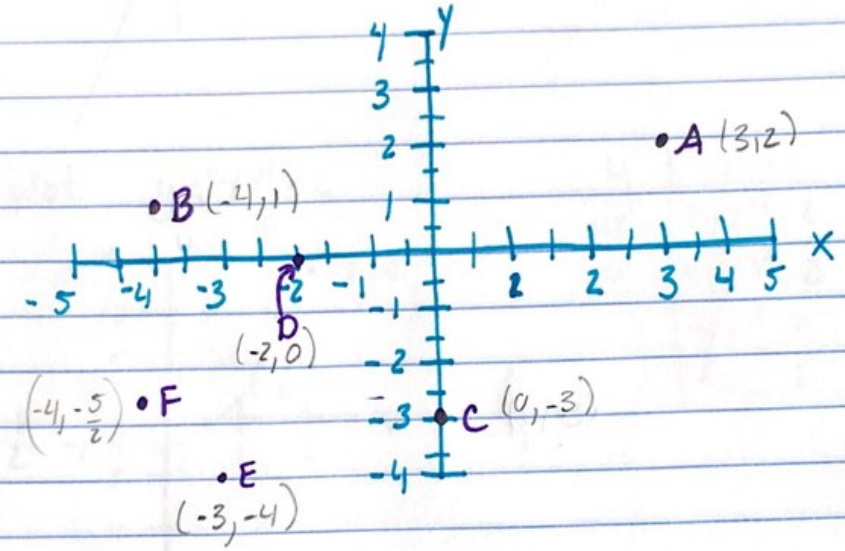
19)



Based on the coordinates (-8, 42) this point would fall in quadrant II

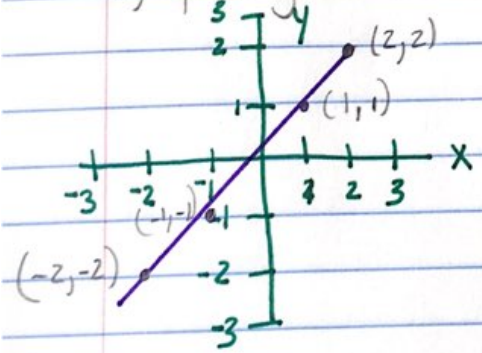
21) A. (3, 1) B. (-3, 0) C. (1, -3) D. (-2, -3) E. (0, 3) F. (1.5, -1) ~~(3/2, -1~~

23)



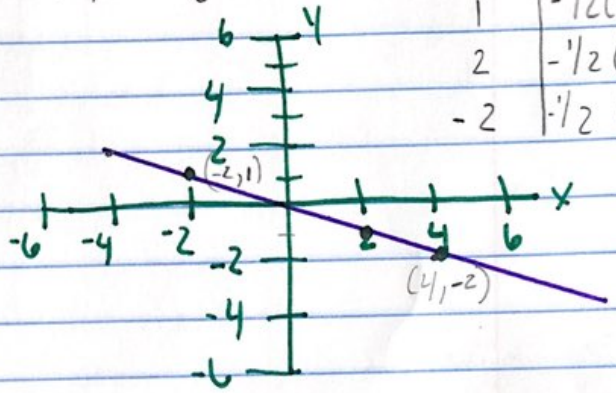
Page 452 21-27 odds

21) plot $y = x$



23) plot $y = -1/2 x$

y	$-1/2x$
1	$-1/2(-2)$
2	$-1/2(-4)$
-2	$-1/2(4)$



Marise Lord

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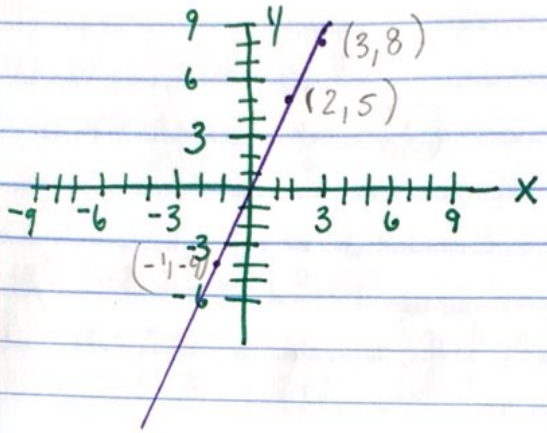
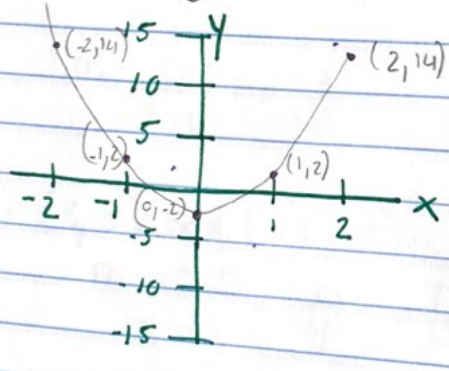
25) plot $y = 3x - 1$

y	$3x - 1$
5	$3(2) - 1$
8	$3(3) - 1$
-4	$3(-1) - 1$



27) plot $y = 4x^2 - 2$

y	$4x^2 - 2$
14	$4(-2)^2 - 2$
14	$4(2)^2 - 2$
2	$4(1)^2 - 2$
-2	$4(0) - 2$



Malisa Lord

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Page 462-463 11-17 odd Determine the slope

Formula: m=(slope) slope $= \frac{y_2 - y_1}{x_2 - x_1}$ > $m = \frac{y_2 - y_1}{x_2 - x_1}$

11) (2, 1) and (5, 7)

$m = \frac{7-1}{5-2} = \frac{6}{3} = \boxed{2}$

13) (-2, 2) and (3, 4)

$m = \frac{4-2}{3-(-2)} = \frac{2}{3+2} = \boxed{\frac{2}{5}}$

15) (6, 0) and (-2, 3)

$m = \frac{3-0}{-2-6} = \frac{3}{-8} = \boxed{-\frac{3}{8}}$

17) (3, 5) and (-1, 5)

$m = \frac{5-5}{-1-3} = \frac{0}{4} = \boxed{0}$

Melise Lord

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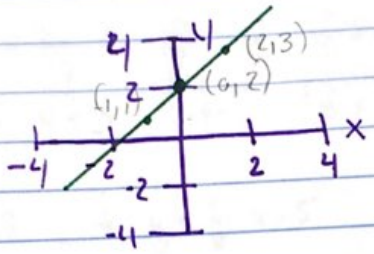
Page 501 11-17 and 22-25

11) Solve $3x-6y=12$ - Solve for y then graph

$3x-6y=12$
$-3x \quad -3x$
$\frac{-6y=-3x+12}{-6 \quad -6}$ $y=\frac{1}{2}x+2$

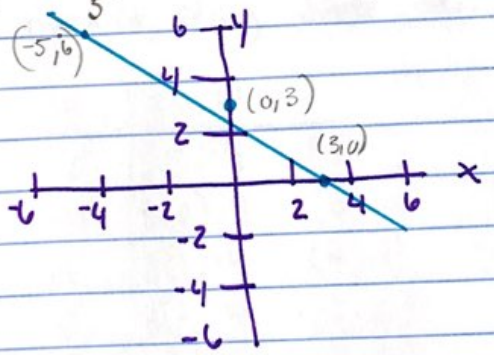
y	$\frac{1}{2}x+2$	
3	$\frac{1}{2}(2)+2$	(2,3)
1	$\frac{1}{2}(-2)+2$	(-1,1)
2	$\frac{1}{2}(0)+2$	(0,2)



12) Graph $3x+5y=15$ Solve y

$\frac{-3x \quad -3x}{5}$
$\frac{5y=-3x+15}{5}$ $y=-\frac{3}{5}x+3$

y	$-3/5x+3$	
3	$-3/5(0)+3$	(0,3)
0	$-3/5(5)+3$	(3,0)
6	$-3/5(-5)+3$	(-5,6)



* I know this graph isn't to scale

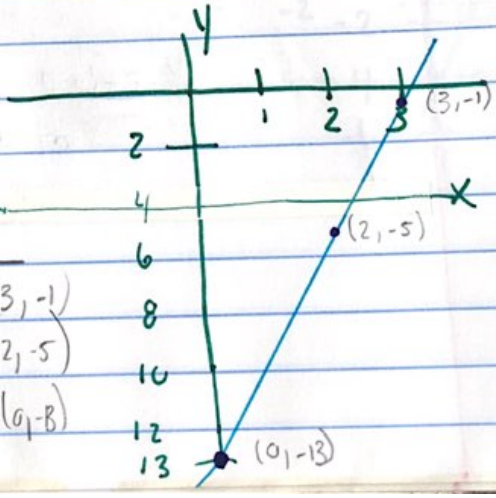
$y=4x-13$

13) $m=4$ $(2,-5)$ $y=mx+b$

$-5=4\cdot 2+b$
$-5=8+b$
$-8 \quad -8$
$-13=b$

$y=4x-13$

y	$4x-13$	
-1	$4(3)-13$	(3,-1)
-5	$4(2)-13$	(2,-5)
-13	$4(0)-13$	(0,-13)



Mansa Lord

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14) (3,-1) and (-4,2) $m = \frac{2-(-1)}{-4-3} = \frac{3}{7}$ $y = mx+b$

$2 = \frac{3}{7}x + b$

$\frac{-3}{7}x - \frac{3}{7}y + b$

$\boxed{\frac{-3}{7}x + \frac{2}{7} = b}$

15) Are these lines parallel?

$\frac{2y = 3x - 6}{2}$ + $y - \frac{3}{2}y = -5$

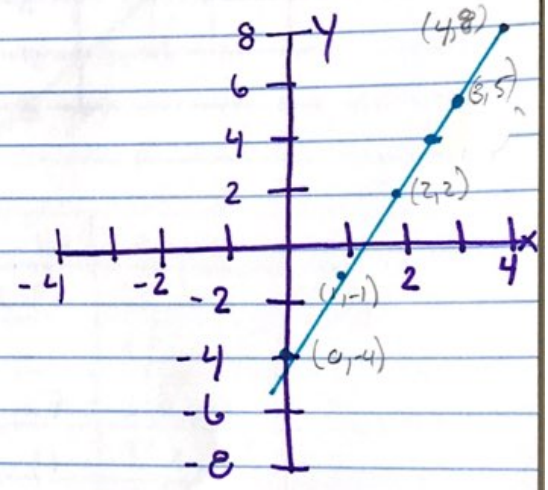
$y = \frac{3}{2}x - 3$ + $+\frac{3}{2}y = \frac{3}{2}x - 5 = y$

$y = \frac{3}{2}x - 3$ + $y = \frac{3}{2}x - 5$

Based on the formula $y = mx+b$ - Both of these equations contain the same slope of $\frac{3}{2}$ yet they contain different intercepts therefore their points wont intersect along same line.

16) $y = 3x - 4$

y	3x-4	
5	3(3)-4	(3,5)
-4	3(0)-4	(0,-4)
-1	3(1)-4	(1,-1)
2	3(2)-4	(2,2)
8	3(4)-4	(4,8)



Marisa Lord

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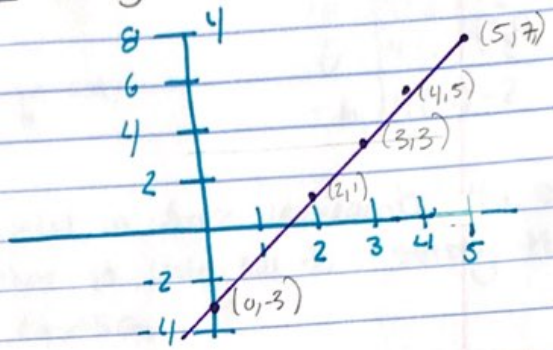
17) Graph: $4x - 2y = 6$

$\frac{-4x \quad -4y}{-2y = -4x + 6}$

$\frac{}{-2 \quad -2} \quad = y = 2x - 3$

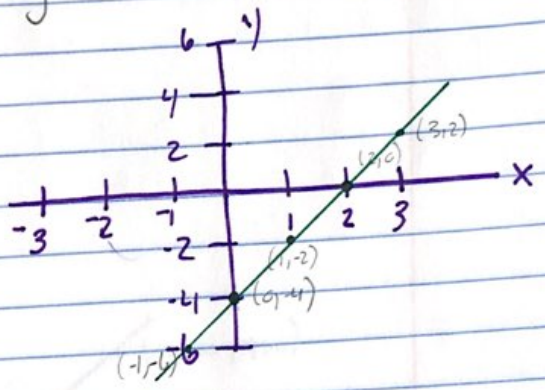
y	2x-3	
-3	2(0)-3	(0, -3)
1	2(2)-3	(2, 1)
3	2(3)-3	(3, 3)
7	2(5)-3	(5, 7)
5	2(4)-3	(4, 5)



22) $f(x) = 2x - 4$ $fx = y$ $y = 2x - 4$

$y = 2x - 4$

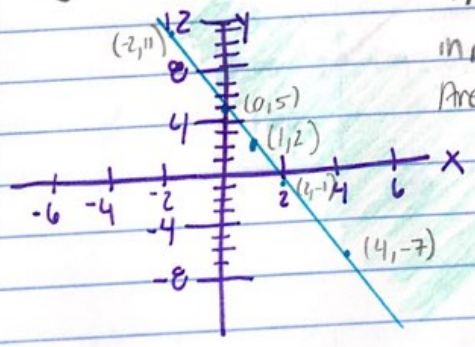
y	2x-4	
-2	2(1)-4	(1, -2)
-4	2(0)-4	(0, -4)
0	2(2)-4	(2, 0)
-6	2(-1)-4	(-1, -6)
2	2(3)-4	(3, 2)



23) graph $y \geq -3x + 5$

The area shaded in represents the area where this equation would be true.

y ≥	-3x + 5	
5	-3(0)+5	0, 5
-1	-3(2)+5	2, -1
-7	-3(4)+5	4, -7
11	-3(-2)+5	-2, 11
2	-3(1)+5	1, 2



Manse Lad

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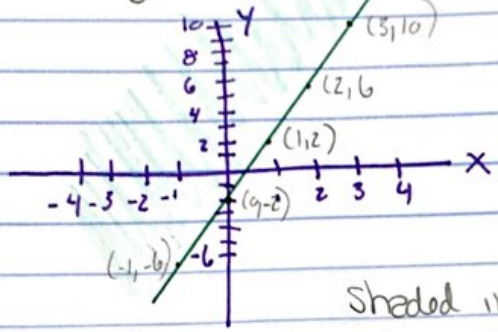
24) Graph $y > 4x - 2$

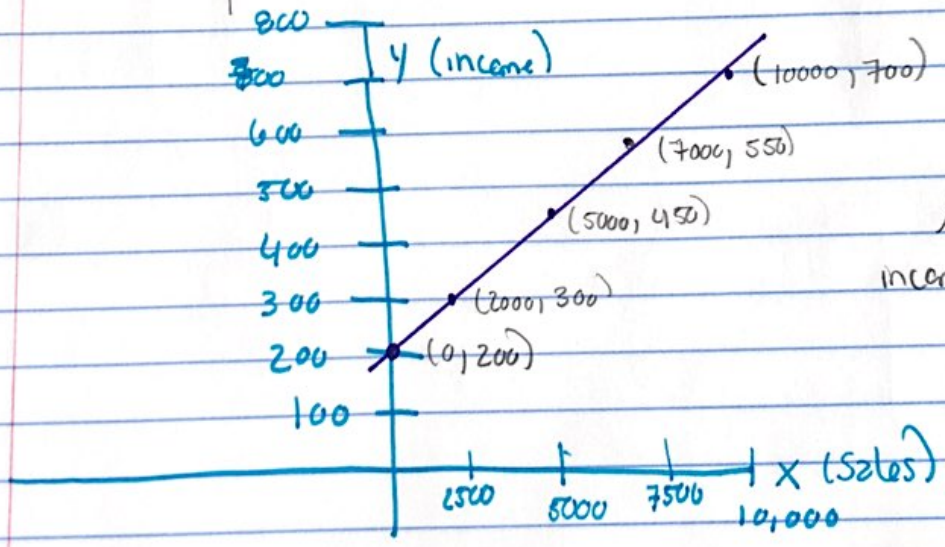


y	$4x-2$	
-2	$4(0)-2$	0, -2
2	$4(1)-2$	1, 2
10	$4(3)-2$	3, 10
6	$4(2)-2$	2, 6
-6	$4(-1)-2$	-1, -6

Shaded in Area represents the area where pts would fall to satisfy the equation

25) $i = 200 + 0.05s$ s = weekly sales

i	$200+0.05s$
200	$200 + .05(0)$
300	$200 + .05(2000)$
450	$200 + .05(5000)$
550	$200 + .05(7000)$
700	$200 + .05(10000)$



As sales increase income increases.