

Today is 11/13/17
Get out Note Packet & Calculator
Goal: Review for test

Agenda:
Go Over HW
p. 31 & 32 Review Sheet

Test Tomorrow
11/14 and
Wednesday 11/15

Work on p. 31 & 32 For review

1. Write an equation of the line with the given slope and y - intercept.

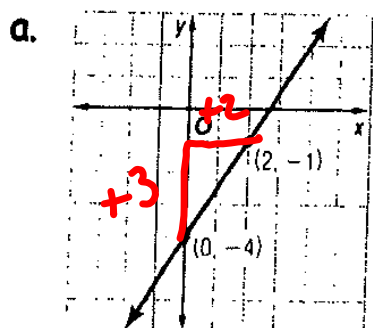
a. slope: 2 y-intercept: -6

$$y = 2x - 6$$

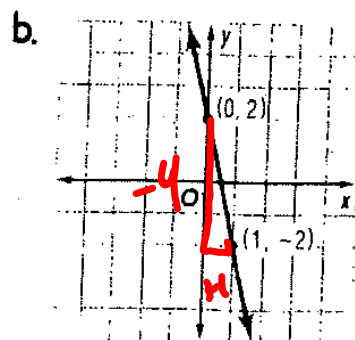
b. slope: $\frac{1}{2}$ y-intercept: 3

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

2. Write an equation of the line shown in each graph.



$$m = \frac{3}{2}$$
$$b = -4$$
$$y = \frac{3}{2}x - 4$$



$$m = -\frac{4}{1}$$
$$b = 2$$
$$y = -4x + 2$$

3. Write an equation of the line that passes through each point with the given slope. ~~x~~ y

a. $(5, -2), m = 3$

$$y = mx + b$$

$$-2 = 3(5) + b$$

$$-2 = 15 + b$$

$$-15 \quad -15 \quad -17 = b$$

$$y = 3x - 17$$

c. $(3, 0), m = -2$

$$y = mx + b$$

$$0 = -2(3) + b$$

$$0 = -6 + b$$

$$+6 \quad +6$$

$$6 = b$$

$$y = -2x + 6$$

b. $(5, 4), m = -5$

$$y = mx + b$$

$$4 = -5(5) + b$$

$$4 = -25 + b$$

$$+25 \quad +25$$

$$29 = b$$

$$y = -5x + 29$$

4. Write an equation of the line that passes through each pair of points.

a. $(4, 2), (-2, -4)$

$$m = \frac{-4 - 2}{-2 - 4} = \frac{-6}{-6} = 1$$

$$\begin{aligned} -4 &= 1(-2) + b \\ -4 &= -2 + b \\ +2 &+2 \\ -2 &= b \end{aligned}$$

$$y = x - 2$$

c. $(-1, 3), (2, -3)$

$$m = \frac{-3 - 3}{2 - (-1)} = \frac{-6}{3} = -2$$

$$-3 = -2(2) + b$$

$$-3 = -4 + b$$

$$+4 \quad +4$$

$$1 = b$$

$$y = -2x + 1$$

b. $(3, -2), (6, 4)$

$$m = \frac{4 - (-2)}{6 - 3} = \frac{6}{3} = 2$$

$$4 = 2(6) + b$$

$$4 = 12 + b$$

$$\begin{aligned} -12 &-12 \\ -8 &= b \end{aligned}$$

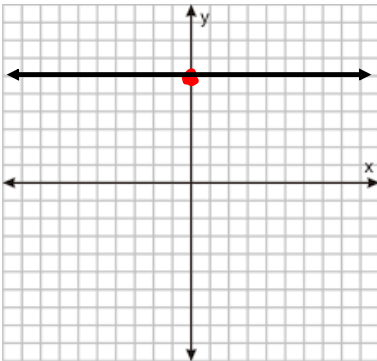
$$y = 2x - 8$$

5. On a separate sheet of graph paper, draw the following lines. You may use the slope-intercept method or your table on the graphing calculator. If you use the calculator, be sure to make a table of at least 3 values. One line per graph please. Make sure you label the graphs and lines appropriately.

a. $y = 6$

$b = 6$

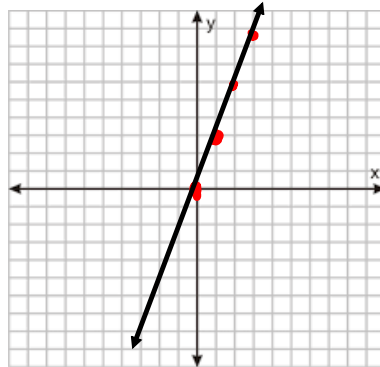
$m = 0$



b. $y = 3x$

$m = 3$

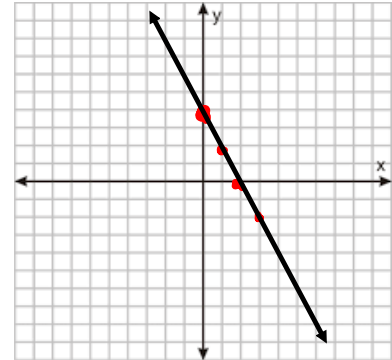
$b = 0$



c. $y = -2x + 4$

$m = -2$

$b = 4$

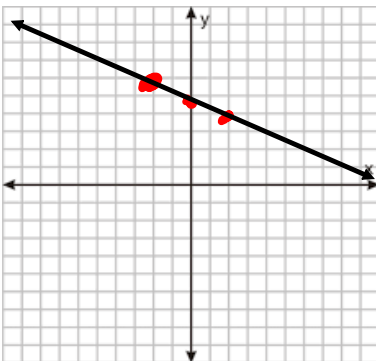


d. $x + 2y = 10$

$-x \quad -x$

$2y = \frac{-x}{2} + \frac{10}{2}$

$y = -\frac{1}{2}x + 5$



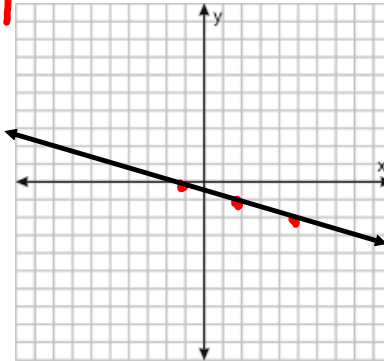
x	y
-2	6
0	5
2	4

e. $x = -3y - 1$

$+1 \quad +1$

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

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



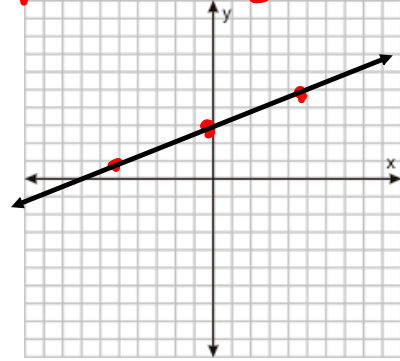
x	y
-1	0
2	-1
5	-2

f. $5y - 2x = 15$

$+2x \quad +2x$

$\frac{5y}{5} = \frac{2x+15}{5}$

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



x	y
0	3
5	5
-5	1