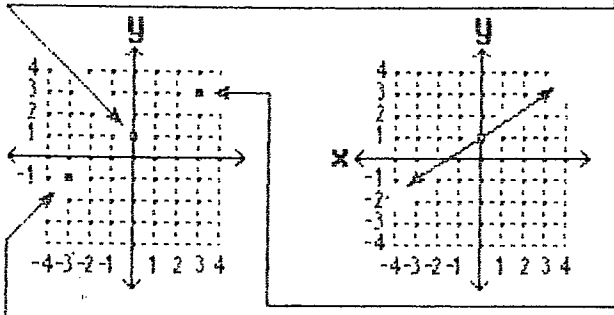


ELEMENTARY ALGEBRA
 UNIT 8 - GRAPHS
 8.4 - LINEAR GRAPHS

NAME _____
 PERIOD ____
 ASSIGNMENT _____

Graph using slope & y-intercept:

*1. $y = \frac{2}{3}x + 1$ { "b" is 1, so put a point on the y-axis at 1



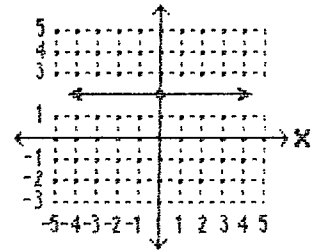
The slope is $\frac{2}{3}$, which means a rise of 2 and a run of 3

From the y-intercept, go up 2 and right 3, (& down 2, left 3), plot another point, then join the three points with a line

Graph using slope & y-intercept:

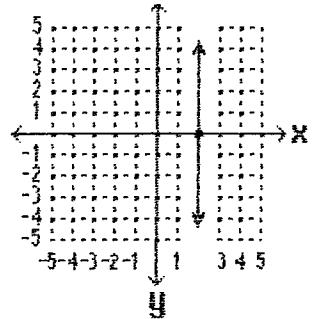
*4. $y = 2$

$b = 2, m = 0$
 (No slope means the line is horizontal)

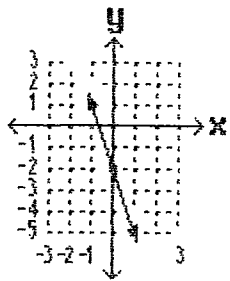


*5. $x = 2$

There is no y-intercept.
 (The x-intercept is 2 and the line is vertical).



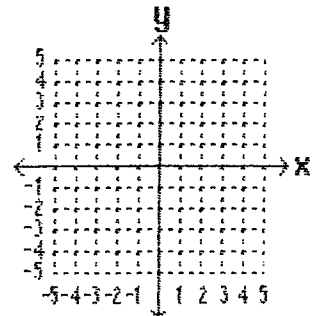
*2. $y = -3x - 2$



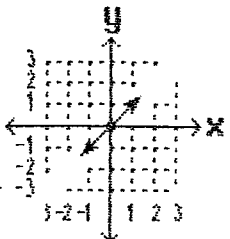
$b = -2$ and $m = -3$.
 $-3 = \frac{-3}{1} = \frac{3}{-1}$, so
 from b , go down 3, right 1 (or up 3, left 1)

6. $y = \frac{3}{5}x - 1$

$m =$
 $b =$



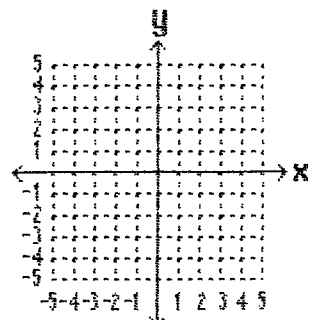
*3. $y = x$



$b = 0$
 and
 $m = 1$

7. $y = \frac{3}{2}x - 2$

$m =$
 $b =$

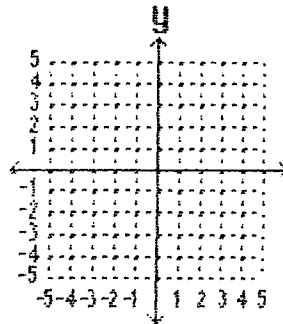


Graph using slope & y-intercept:

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

m =

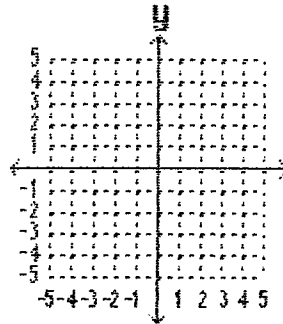
b =



9. $y = 3x - 1$

m =

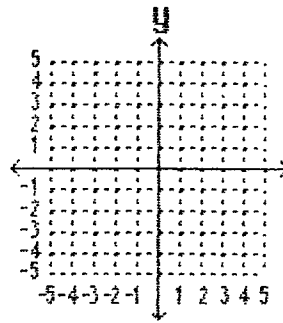
b =



10. $y = -2x$

m =

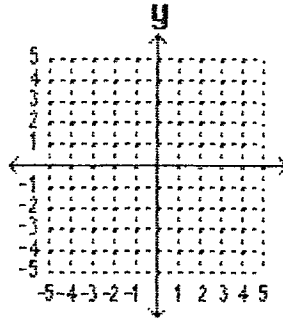
b =



11. $y = -3$

m =

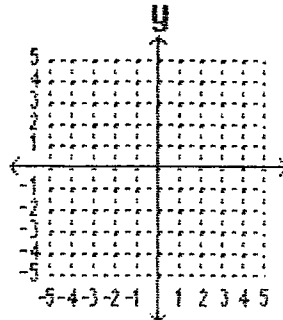
b =



12. $x = -4$

m =

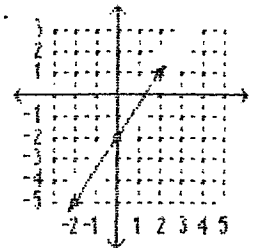
b =



ANSWERS:

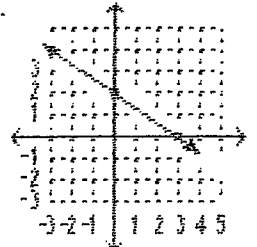
#1.

7.



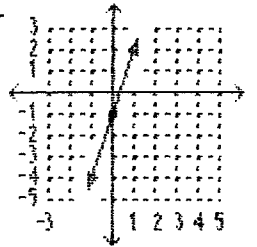
#2.

8.



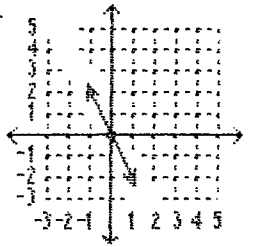
#3.

9.



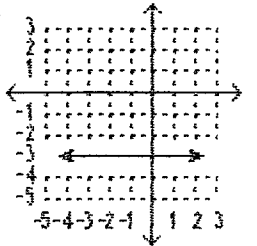
#4.

10.



#5.

11.



6.

12.

