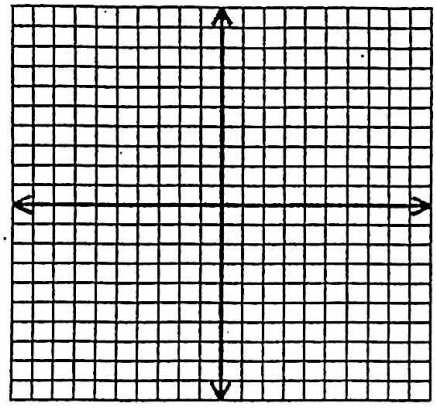
Name: _____ Period: _____ ID: 1

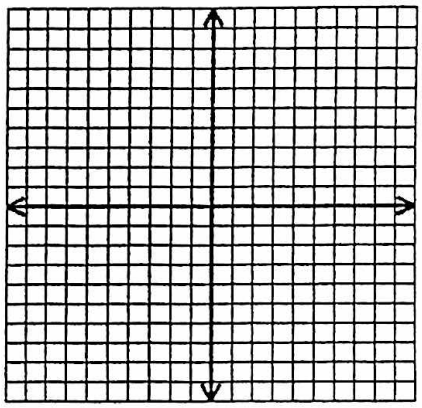
LINEAR FUNCTIONS

I. Graph each line given the following information:

1. Through the point $(4, -3)$ and a slope of $-\frac{3}{2}$.



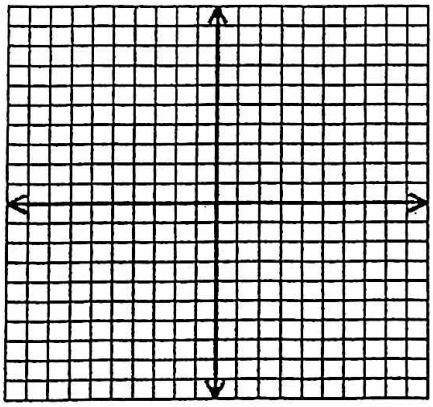
2. $m = 3$ *and* $b = -2$



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

m = _____

b = _____

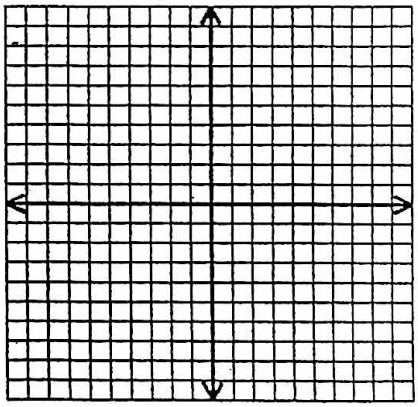


4. ~~$5x + 3y = 15$~~ $y = -\frac{5}{3}x + 5$

m = _____

b = _____

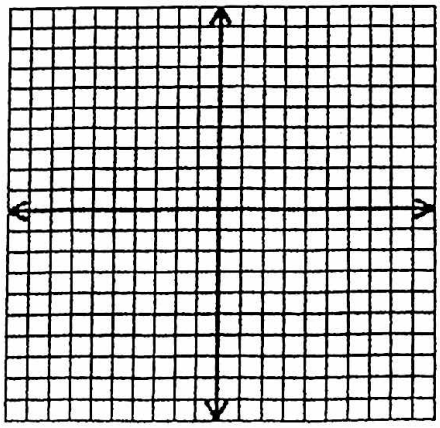
x-int = _____



5. $y = 4$

m = _____

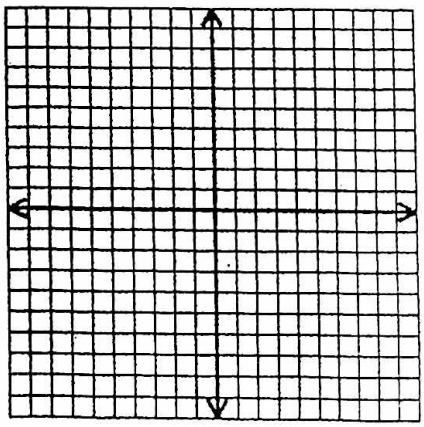
b = _____



6. $x = -2$

m = _____

b = _____



II. Answer the following questions using the information given.

7. Find the slope of the line through the points $(5, -3)$ *and* $(-2, 4)$. SHOW ALL WORK.

m = _____

8. Find the slope of the line through the points $(-1,2)$ *and* $(-6, -5)$. SHOW ALL WORK.

m = _____

9. Find the value of x so that the points lie on a line with the given slope. SHOW ALL WORK.
$(1, -3)$ *and* $(3, x)$; $m = -1$

X = _____

FIND THE SLOPE AND Y-INTERCEPT OF THE FOLLOWING TABLES:

10.

x	f(x)
1	3
2	5
4	9

m = _____

b = _____

11.

x	f(x)
3	0
6	-1
9	-2

m = _____

b = _____

12. What is the slope and y-intercept of the PARENT LINEAR FUNCTION?

m = _____

b = _____

Algebra 1

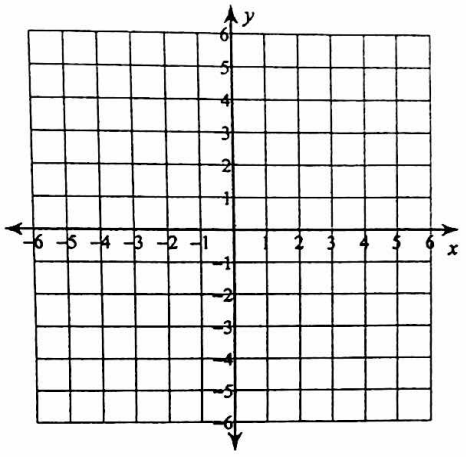
Name_____

Chapter 5 Test Review

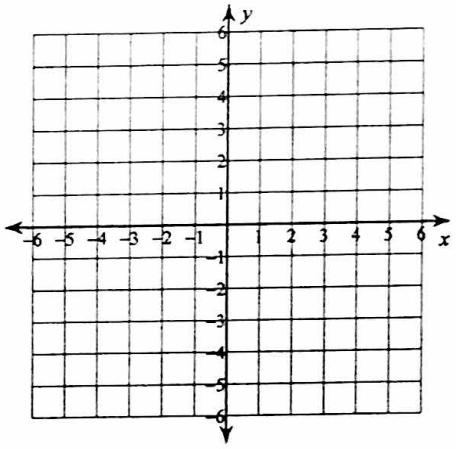
Date_____ Period____

Sketch the graph of each line.

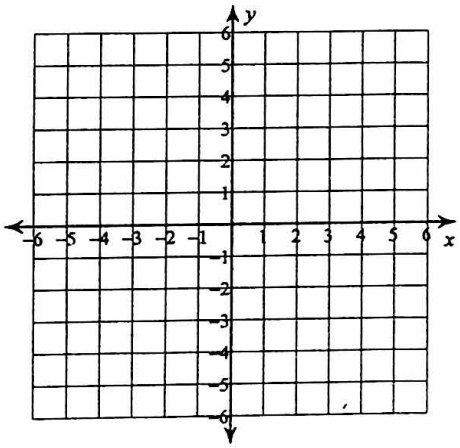
1) $y = \frac{3}{2}x + 1$



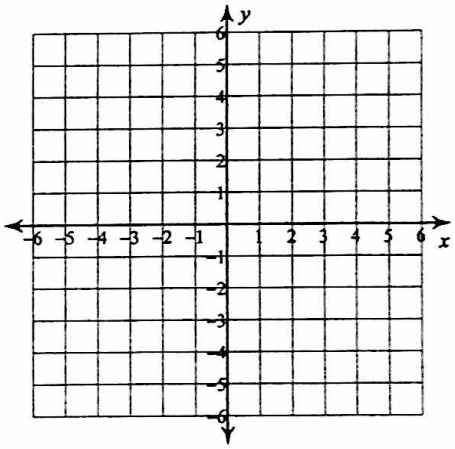
2) $y = -x + 3$



3) x-intercept = 3, y-intercept = -5



4) x-intercept = 5, y-intercept = 5



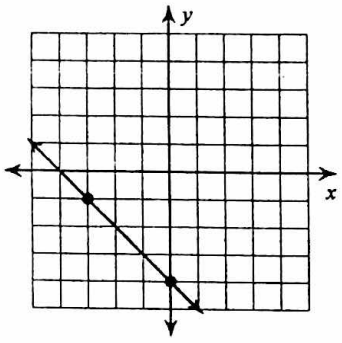
Find the x and y intercept of each equation.

5) $x + 2y = -2$

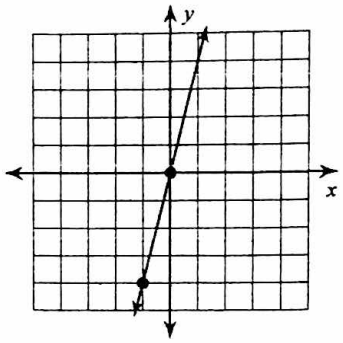
6) $x - 2y = 6$

Write the slope intercept form of the equation represented by the graph.

7)



8)



Evaluate each expression.

9) $3 + -5 + 3$

10) $((5)(-2))(5)$

Solve each equation.

11) $-(3n - 2) = -6 - 5n$

12) $7k - 14 = -8(3k - 6)$

13) $-5(1 - 3p) = 30 + 8p$

14) $10 - 5x = 2(5 - 3x)$

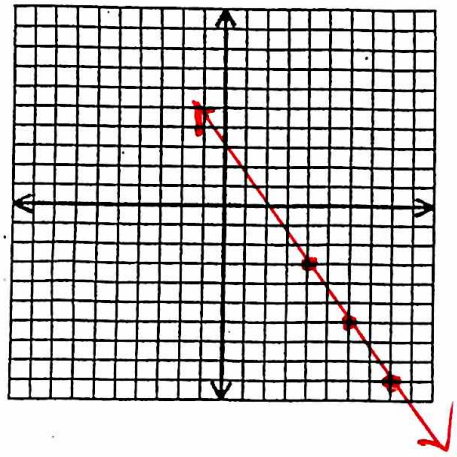
Name: _____ Period: _____ ID: 1

LINEAR FUNCTIONS

I. Graph each line given the following information:

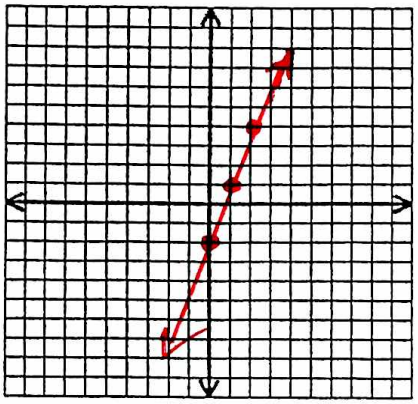
1. Through the point $(4, -3)$ and a slope of $-\frac{3}{2}$.

start pt



2. $m = 3$ *and* $b = -2$ (start pt)

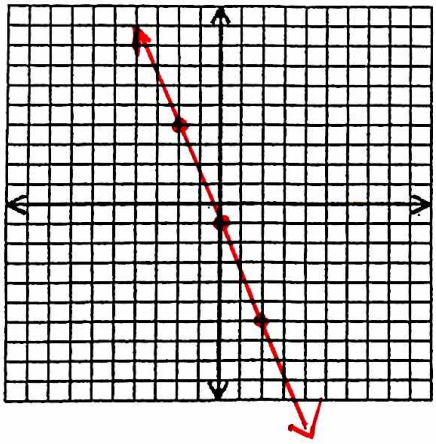
$m = \frac{3}{1}$



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

m = $\frac{-5}{2}$

b = -1



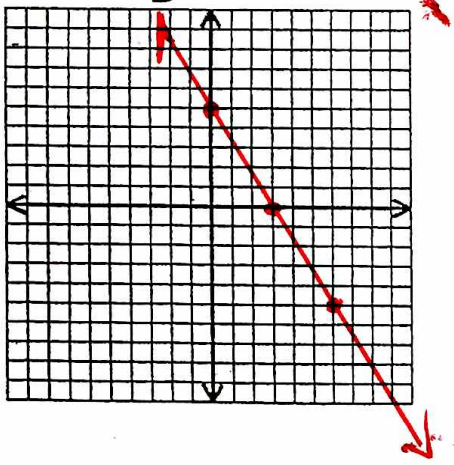
4. ~~$5x + 3y = 15$~~

m = $\frac{-5}{3}$

b = 5

~~x-int =~~

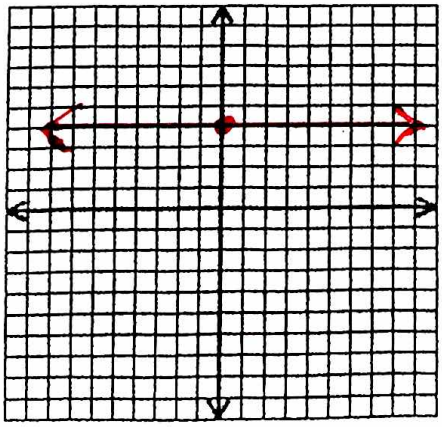
$y = -\frac{5}{3}x + 5$



5. $y = 4$

m = 0

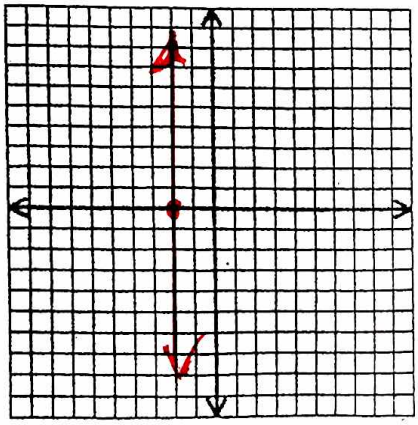
b = 4



6. $x = -2$

m = und

b = none



II. Answer the following questions using the information given.

7. Find the slope of the line through the points $(5,-3)$ *and* $(-2,4)$. SHOW ALL WORK.

$m = \frac{4-(-3)}{-2-5} = \frac{7}{-7} = -1$

m = -1

8. Find the slope of the line through the points $(-1,2)$ *and* $(-6,-5)$. SHOW ALL WORK.

$m = \frac{-5-2}{-6-(-1)} = \frac{-7}{-5} = \frac{7}{5}$

m = $\frac{7}{5}$

9. Find the value of x so that the points lie on a line with the given slope. SHOW ALL WORK.
$(1,-3)$ *and* $(3,x)$; $m = -1$

X = _____

FIND THE SLOPE AND Y-INTERCEPT OF THE FOLLOWING TABLES:

10.

x	y ~~f(x)~~
x_1 1	y_1 3
x_2 2	y_2 5
4	9

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

m = 2

b = ~~_____~~

11.

x	y ~~f(x)~~
x_1 3	y_1 0
x_2 6	y_2 -1
9	-2

$m = \frac{-1-0}{6-3} = \frac{-1}{3}$

m = $\frac{-1}{3}$

b = ~~_____~~

12. What is the slope and y-intercept of the PARENT LINEAR FUNCTION?

$y = x$

m = 1

b = 0

Algebra 1

Name_____

Chapter 5 Test Review

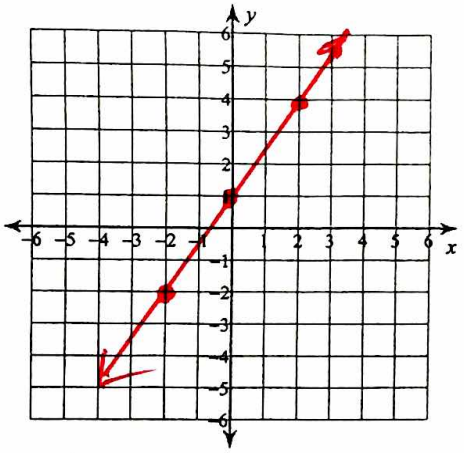
Date_____ Period____

Sketch the graph of each line.

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

m = 3/2

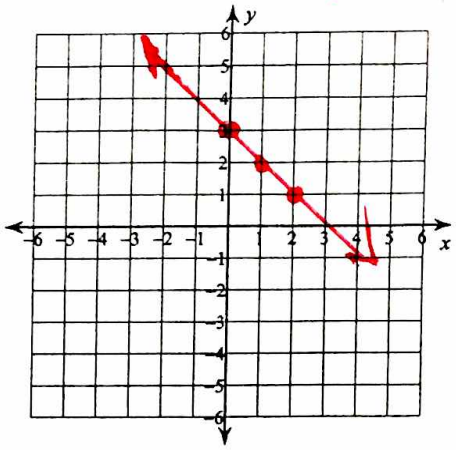
b = 1



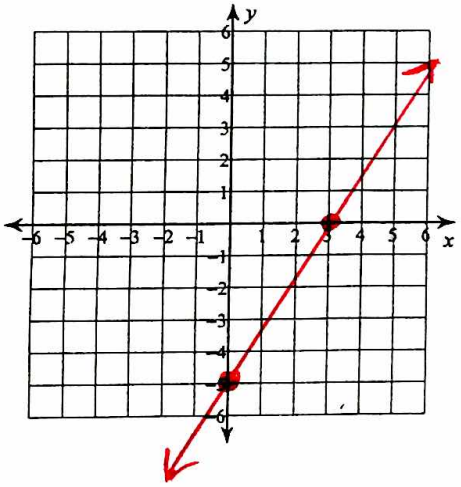
2) $y = -x + 3$

m = -1

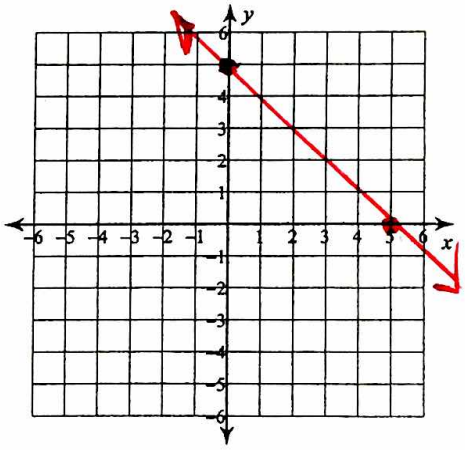
b = 3



3) x-intercept = 3, y-intercept = –5



4) x-intercept = 5, y-intercept = 5



Find the x and y intercept of each equation.

5) $x + 2y = -2$

x = -2

y = -1

6) $x - 2y = 6$

x = 6

y = -3

Write the slope intercept form of the equation represented by the graph.

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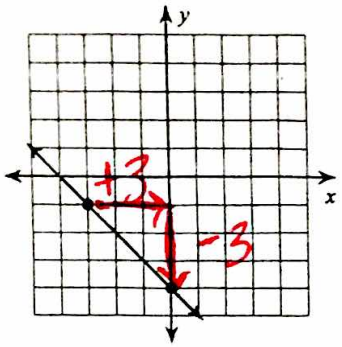
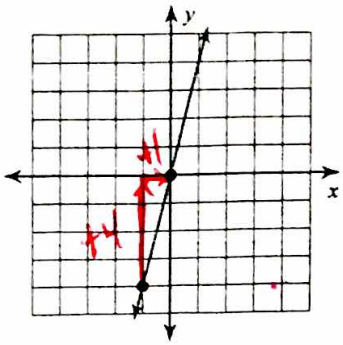


$m = \frac{-3}{3} = -1$

8)



$m = \frac{4}{1}$ or 4

Evaluate each expression.

9) $3 + -5 + 3$

1

10) $((5)(-2))(5)$

-50

Solve each equation.

11) $-(3n - 2) = -6 - 5n$

x = -4

12) $7k - 14 = -8(3k - 6)$

x = 2

13) $-5(1 - 3p) = 30 + 8p$

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