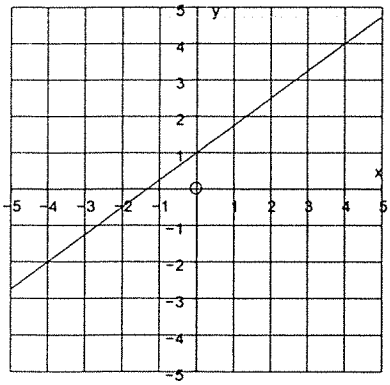
Algebra P3 Name:

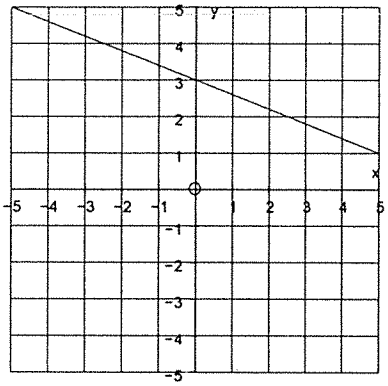
Homework 7

REVIEW: Write an equation in slope-intercept form for each line graphed below.

1)



2)



3) Find the slope of the line through the points (5, 3) and (-2, 6) (you must memorize this equation!!)

4) Find the slope of the line through the points (-3, -1) and (-2, 5)

5) Simplify $(2x-5)-(3x+3)$

6) Simplify $(5x-3)-3(2x-4)$

NEW: Use point-slope form $(y-y_1=m(x-x_1))$ to find the equation of the line.

7) m = 12, passing through the point (2, -5)

8) slope is -8, passing through the point (-1, 6)

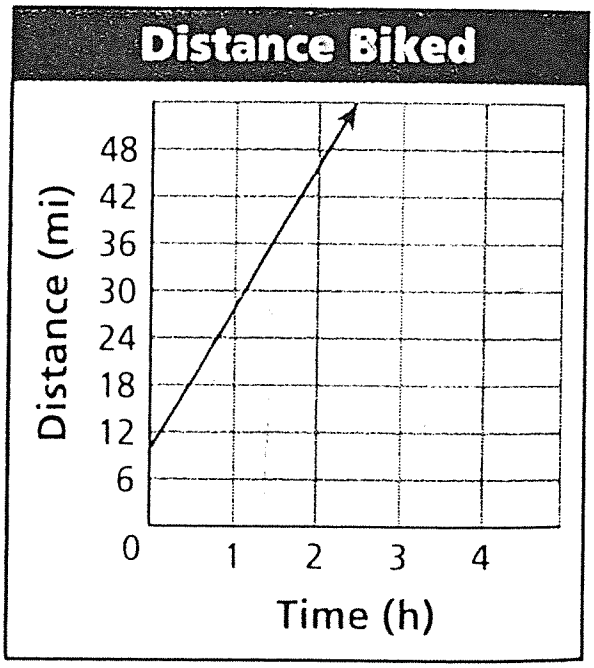
9) m = -8 with y-intercept at 4

10) m = 3/2 passing through the point (12, 9)

11) m = 0, passing through the point (-1, -3)

12) m = undefined, passing through the point (-1, -3)

13) Helen is in a bicycle race. Her distance as a function of time is shown in the graph.



a. Write an equation that represents the distance Helen has biked as a function of time. You may have to estimate points.

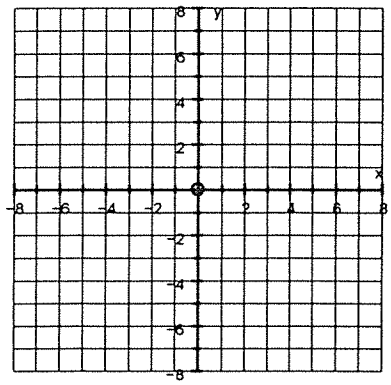
b. Identify the slope and y-intercept.
slope =
y-intercept =

c. Explain the meaning of the slope.

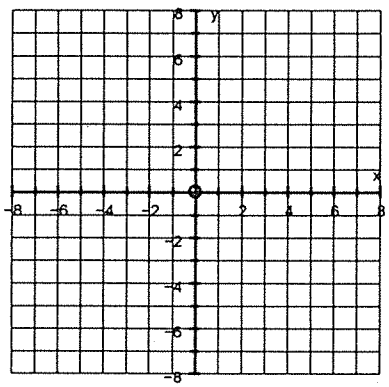
d. Explain the meaning of the y-intercept.

REVIEW: Graph each of the following.

14) $y = \frac{4}{3}x - 2$



15) $4x - 2y = 10$ (use intercepts!)



16) $y = x$ (Tricky! Both m and b are hidden!!)