

Appendix D: Pre-test

Slope and Equations Quiz

Name:

Score:

1. a) Determine whether the relationship between the two quantities described in the table is linear. (5 points)

Hours Rented (h)	Cost (\$)
2	50
4	100
6	150
8	200

b) If so, find the constant rate of change. If not, explain your reasoning.

c) Decide if the relationship is proportional. Support your answer with work.

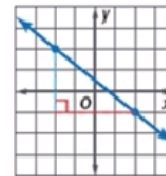
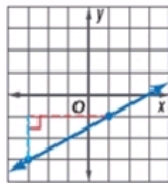
2. Find the slope of the line that passes through each of the points (be sure to reduce fractions and don't leave any negative numbers in the denominators) (2 points each)

a) $A(0, 2)$ and $B(4, -1)$

b) $X(16, 8)$ and $Y(4, 2)$

c) $E(2, -10)$ and $F(6, -1)$

- 3) Find the slope of each of the following lines: (2 points each)



4) The table shows points that are on a given line. Find the slope. Show your work. (2 points)

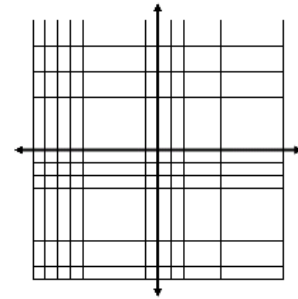
x	0	1	2	3
y	3	5	7	9

5) State the slope and the y-intercept for the graph of each equation. Then graph each one on the accompanying graph. (4 points each)

a) $y = -3x - 2$

m =

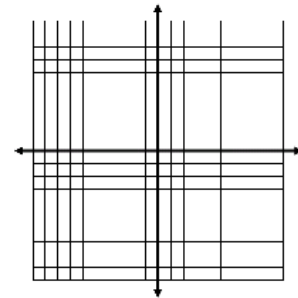
b =



b) $3y = 6x + 9$

m =

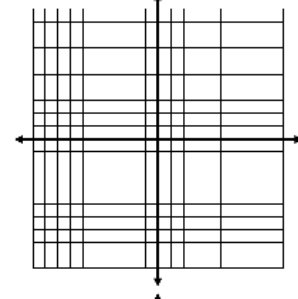
b =



c) $y = \frac{1}{2}x + 9$

m =

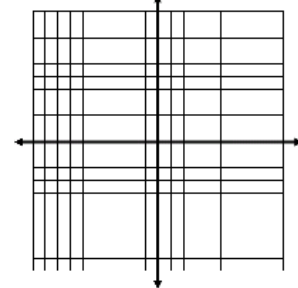
b =



d) $y - 7 = -5x$

m =

b =



6) Write an equation of a line in slope-intercept form with the given slope and y-intercept. (2 points each)

a) slope = 8

y-intercept = -5

b) $m = -4$

$b = 12$

7) Write an equation in slope-intercept form for the graph shown. (3 points each)

