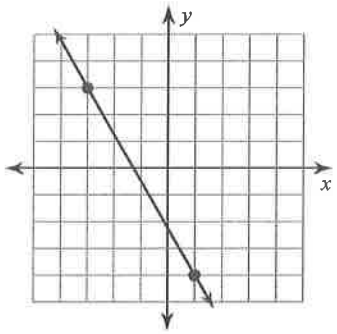
Algebra 1 Name_____ ID: 1

Chapter 4 Review

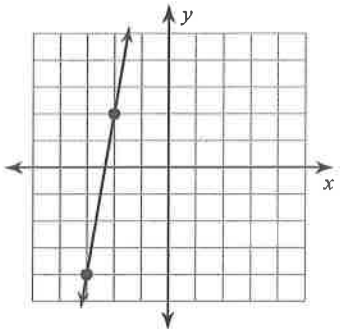
Date_____

Find the slope of each line.

1)



2)



3) $4x + 3 = y$

4) $y = 0$

5) $-3x - 5 - 5y = 0$

Find the slope of the line through each pair of points.

6) $(-7, 12), (-16, 0)$

Find the slope of a line parallel to each given line.

7) $y = -3 - 4x$

8) $10x + 3y - 15 = 0$

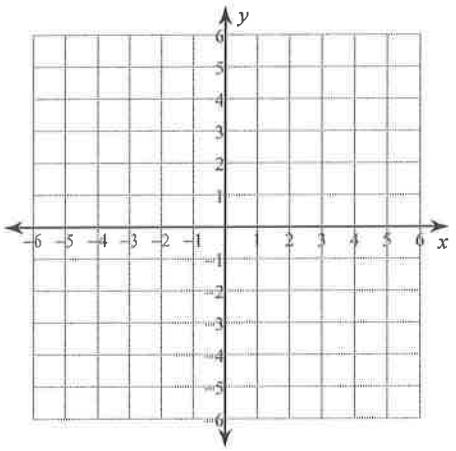
Find the slope of a line perpendicular to each given line.

9) $y = 2x - 5$

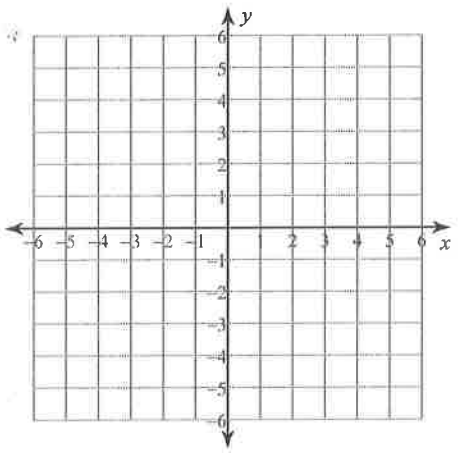
10) $-y + 5x = -1$

Sketch the graph of each line.

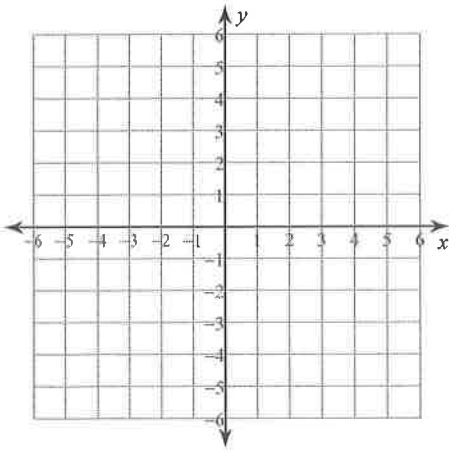
11) x-intercept = –4, y-intercept = 5



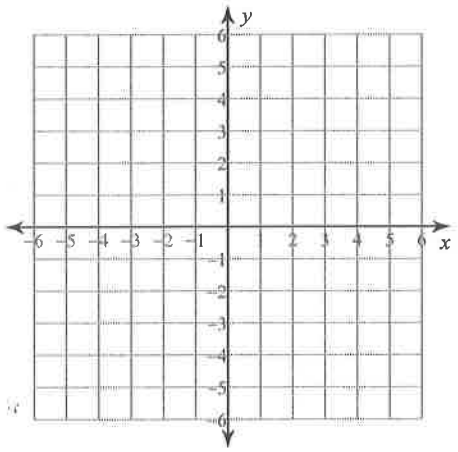
12) $x = 4$



13) $x - 3y = -6$



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



Write the slope-intercept form of the equation of each line.

15) $9x + 2y = -28$

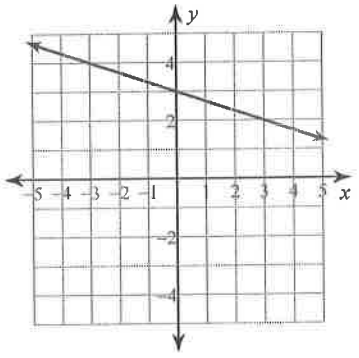
16) $y + 3 = \frac{1}{5}(x - 5)$

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

17) Slope $= -\frac{1}{2}$, y-intercept $= -2$

Write the slope-intercept form of the equation of each line.

18)



Write the slope-intercept form of the equation of the line through the given point with the given slope.

19) through: $(-1, 5)$, slope $= -2$

Write the slope-intercept form of the equation of the line through the given points.

20) through: $(3, 0)$ and $(-2, 5)$

Write the slope-intercept form of the equation of the line described.

21) through: $(1, -4)$, parallel to $y = -8x - 2$

22) through: $(1, 3)$, perp. to $y = -\frac{1}{2}x + 1$

Write the standard form of the equation of each line.

23) $-3x = -24 - 12y$

Write the standard form of the equation of the line through the given point with the given slope.

24) through: $(5, 1)$, slope = 2

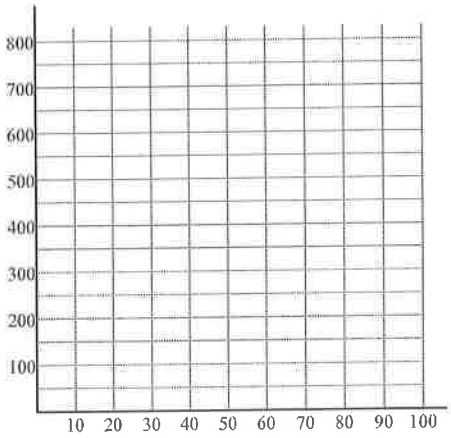
Construct a scatter plot. State if there appears to be a positive correlation, negative correlation, or no correlation. When there is a correlation, identify the relationship as linear, quadratic, or exponential. If it is linear draw the line that best fits and find the equation of the line.

25)

X	Y
10	220
20	420
40	690
50	760

X	Y
50	760
60	790
70	830

X	Y
70	830
90	800
100	760



26)

X	Y
5	8,700
5	9,100
9	8,300
23	7,700
25	7,800

X	Y
35	6,600
53	5,800
66	4,300
94	2,800
97	2,500