

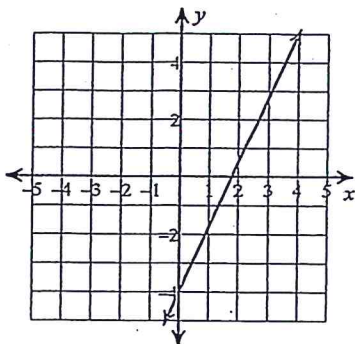
Write the equation of each line with:

1) Slope = -2, y-intercept = 0

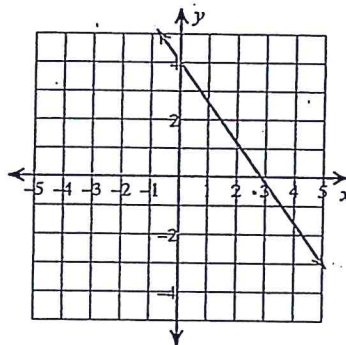
2) Slope = 3, y-intercept = 1

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

3)



4)



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

5) (8, 18), (11, -2)

6) (-18, 8), (18, 11)

Write a linear function with the given values:

7) $f(3) = 5$ and $f(0) = 7$

8) $f(3) = -5$ and $f(1) = -3$

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

9) through: (2, -3), slope = -2

10) through: (1, -3), slope = -5

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

11) through: (0, 1) and (-1, 5)

12) through: (-3, 5) and (0, -5)

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

13) $y + 5 = \frac{5}{2}(x + 4)$

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

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

15) through: (0, 5) and (-4, 3)

16) through: (2, 0) and (4, 1)

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

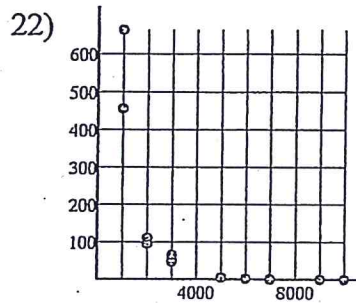
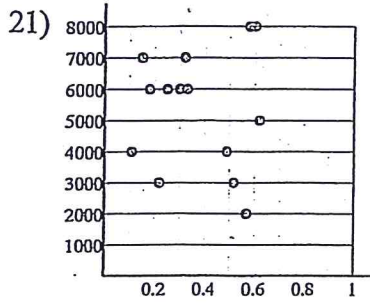
17) through: (-3, 4), parallel to $y = -2x + 5$

18) through: (-2, 2), parallel to $y = x$

19) through: (4, -3), perp. to $y = \frac{4}{3}x - 1$

20) through: (2, 1), perp. to $y = -\frac{2}{5}x - 4$

State if there appears to be a positive correlation, negative correlation, or no correlation.



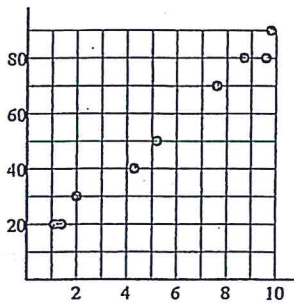
The number of students (x) and the number of squirrels (y) present at lunch can be modeled by the equation $y = 8x + 11$ as shown in the table and graph below:

23)

X	Y	X	Y	X	Y
5.2	50	1.1	20	4.3	40
1.1	20	9.6	80	2	30
8.7	80	7.6	70	1.4	20
9.8	90				

a) Interpret the y -intercept of this function

b) Interpret the slope of this function



c) How many squirrels do we expect when there are 23 students at lunch?

d) How many students do we expect when there are 100 squirrels at lunch?

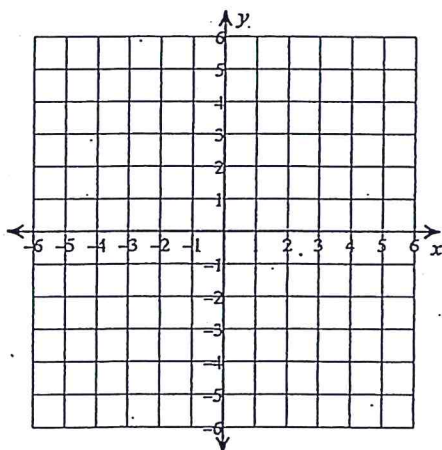
Solve each equation.

24) $1 = \frac{p}{3} - 2$

25) $-6 = 3(-1 + p)$

Sketch the graph of each line.

26) $y = x - 4$



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

