Trashketball Review



Unit 2: Linear Equations

Rules of the Game:

- 1. Every person in the class must have paper to workout each problem. Whether it is your turn or not.
- 2. Only the person given the question can answer. No talking!
- If you get the question right you get to make a paper basketball.
- 4. If you get it wrong the other team has a chance to steal. If they get it right they get the basketball.
- 5. At the end of the game, students with paper basketballs get to attempt a shot.
- 6. The team with the most points wins!

Point Values!!!

Students may choose where to shoot from....

5 point shot (From Down Town!!!!!)

3 point shot (Make it rain!!!)

2 point shot (Jump Shot!!)

1 point shot (For those that do not want to shoot!)

Find the slope given two points

2.) (-4, 3) and (-4, 6)

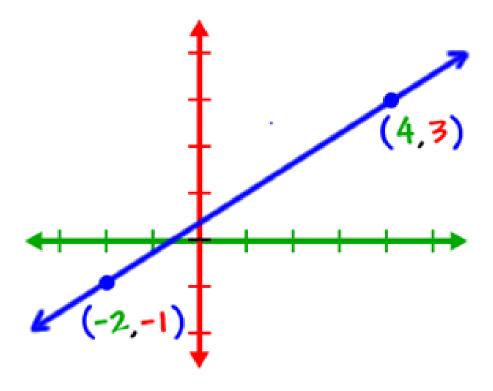
$$M = Wn defined$$

$$= \frac{(e-3)}{-449} = \frac{3}{0}$$

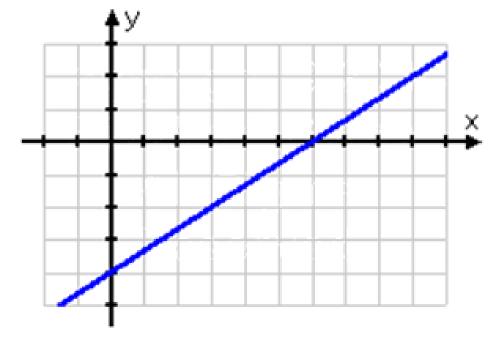
Find the slope....

$$m = -\frac{1-3}{-2-4} = -\frac{4}{-2}$$
 $= -\frac{4}{-2}$

3.



4.



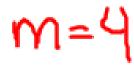
Find the slope given the table....



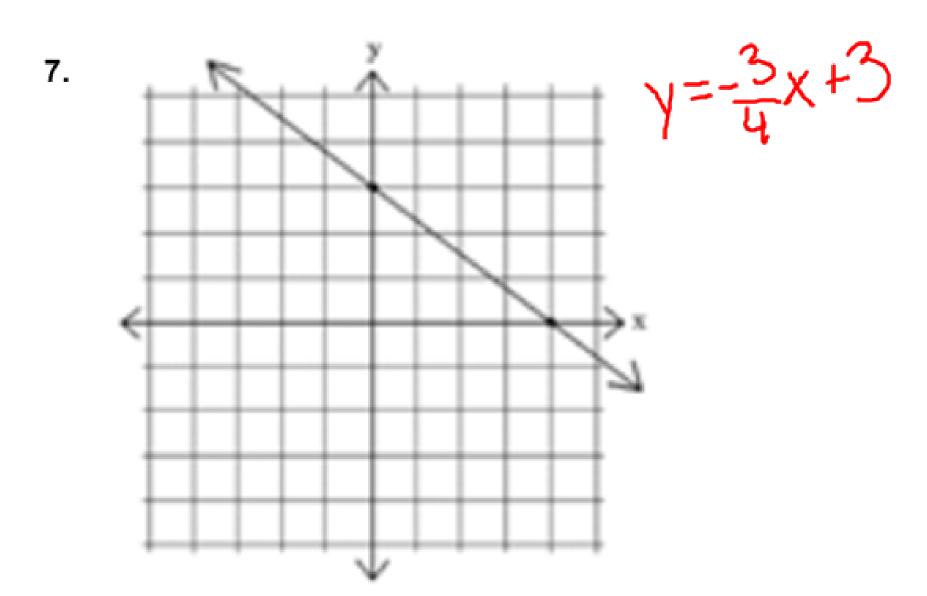
X (years)	Y (\$ in thousands)
1 2 1	27 📏 👍
2	31
3	35
4	39

6. Option B

X (years)	Y (\$ in thousands)
1	32
2	34
3	36
4	38



Write the equation of this graph in slopeintercept form.



8. Describe the correlation and trend. **Beach Visitors** gositive 600 525 450 92 Average Daily Temperature (°F)

Which of the following is the best prediction for beach visitors in 100? heat if this trend centinues?

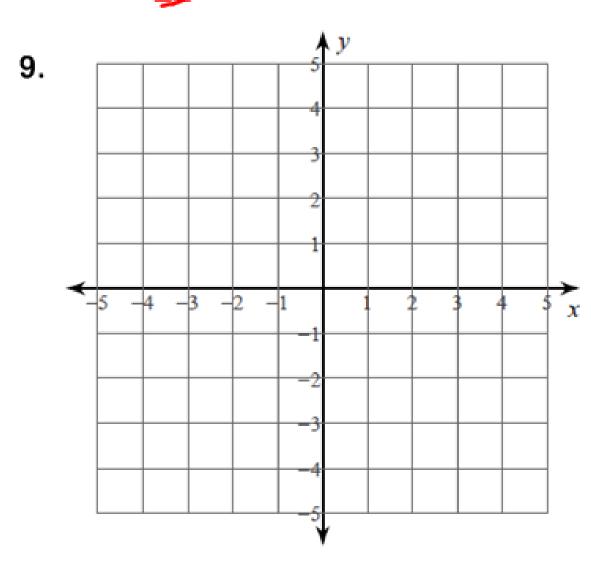
A. 500

B. 550

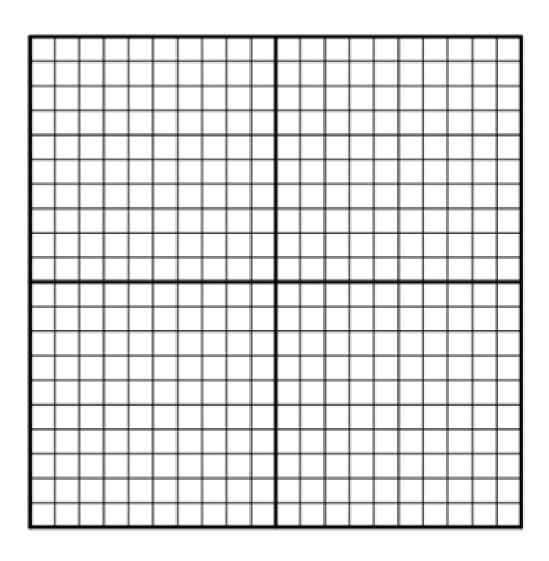
C_ 700

D. 850

x = 3 and y = -4



$$y > 1/2x +6$$



If f(x) = 2x + 3, find each value.

f(2)

$$(f(-1)) = 2(-i)+3=1$$

If $f(x) = 5 + 2x^2$, find each value.

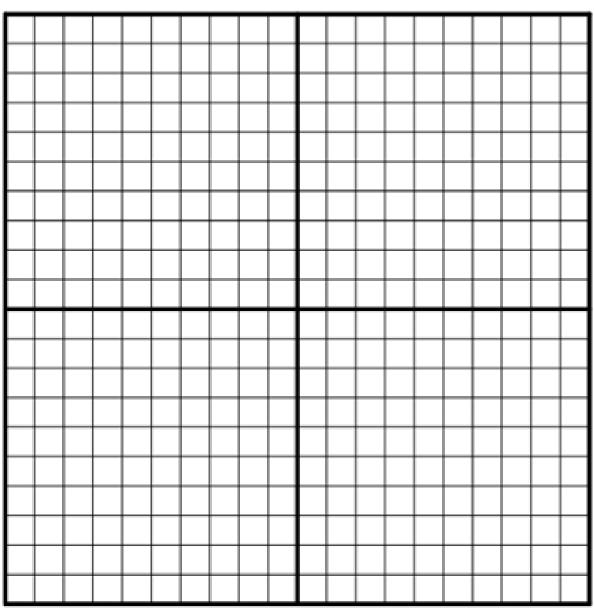
$$(f(-4)^{2} + 5 + 2(-4)^{2})$$

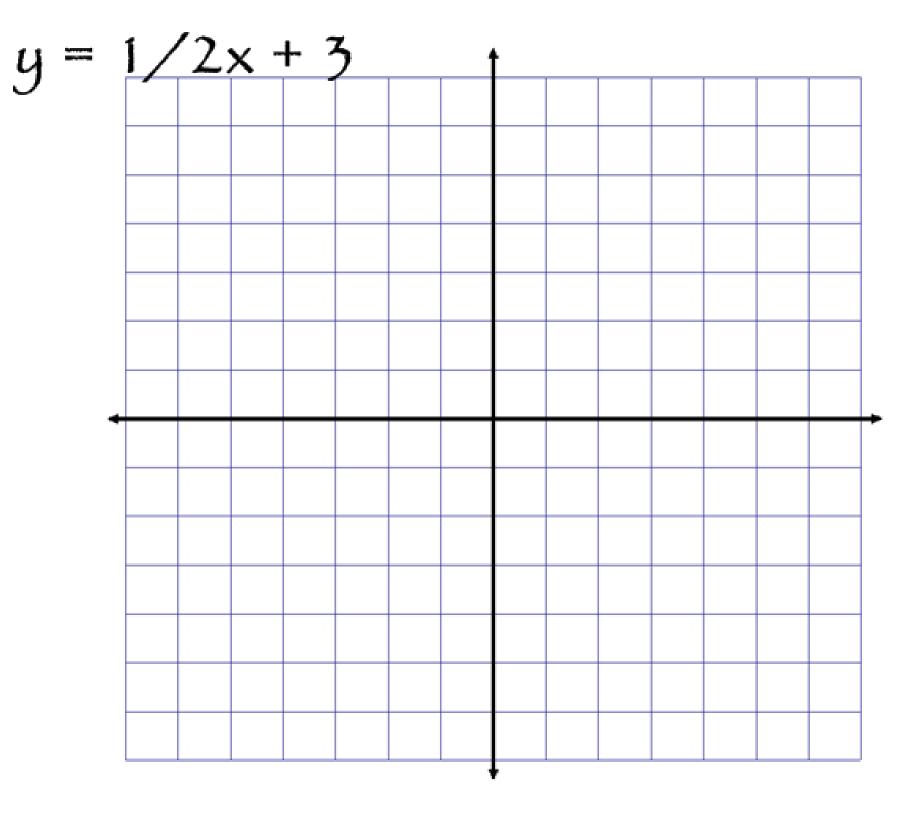
$$= 5 + 32$$

$$= 37$$

X	y	Rate of change:
3 3 3 3	5 8 11 14 18	Graph description: positive, negative, zero, or undefined?

 $y < -\frac{1}{5}x + 4$





Write an equation in slope-intercept form for the line with the given slope and y-intercept.

and y-intercept.

$$m = 1/4$$
 point: $(0, 3)$
 $y = \frac{1}{4}x + 3$

$$m = -3$$
 point: (0, 2/3)

What are the x & y-intercepts of this equation?

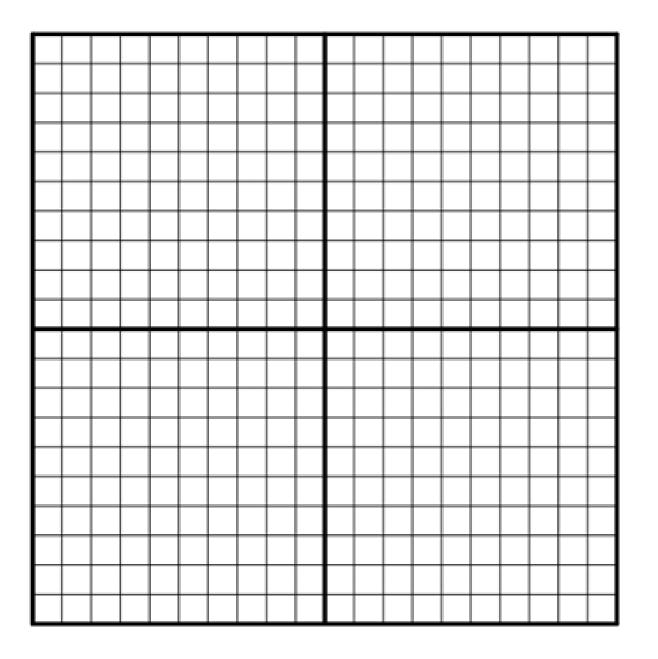
dupe-intercept

graph

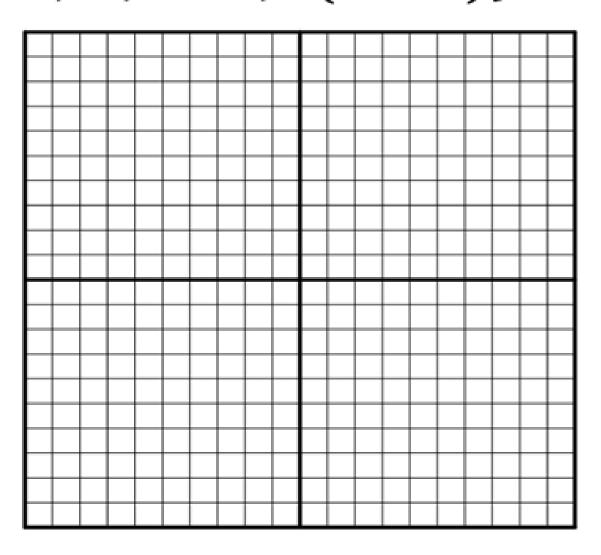
$$2x - 3y = -9$$

$$-3y = -2x - 9$$

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



Determine which ordered pairs are part of the solution set for each inequality. 3x + 4y < 7 $\{(1,1), (2,-1), (-1,1), (-2,4)\}$



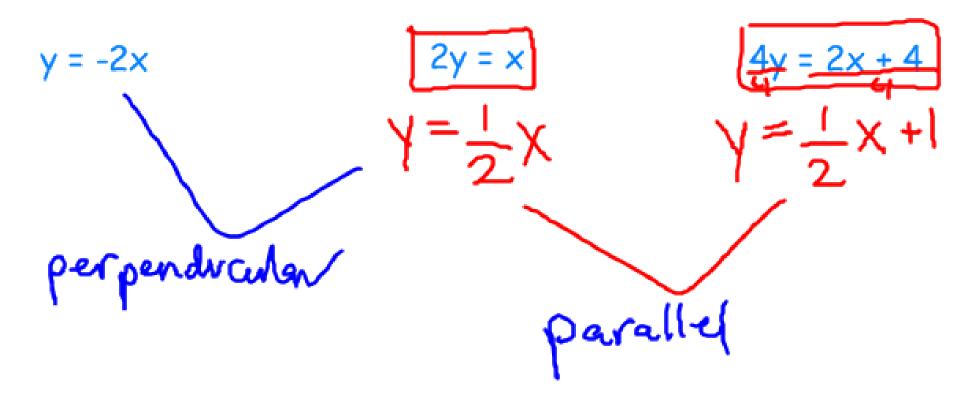
Write an equation in point-slope form.

Now rewrite that equation in slope-intercept form

Write an equation in slope-intercept form for the line that passes through (4,-1) and is parallel to the graph of $y = \frac{1}{4}x + 7$

Determine whether the graphs of the following equations are parallel or perpendicular. Explain.

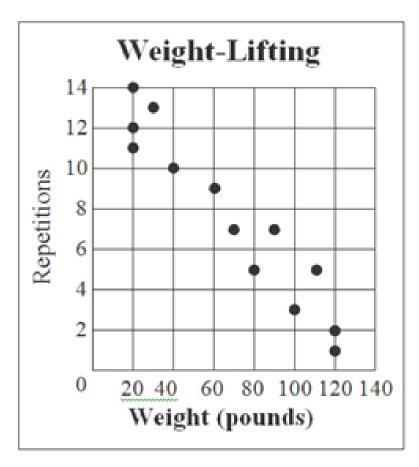
$$y = -2x$$
, $2y = x$, $4y = 2x + 4$



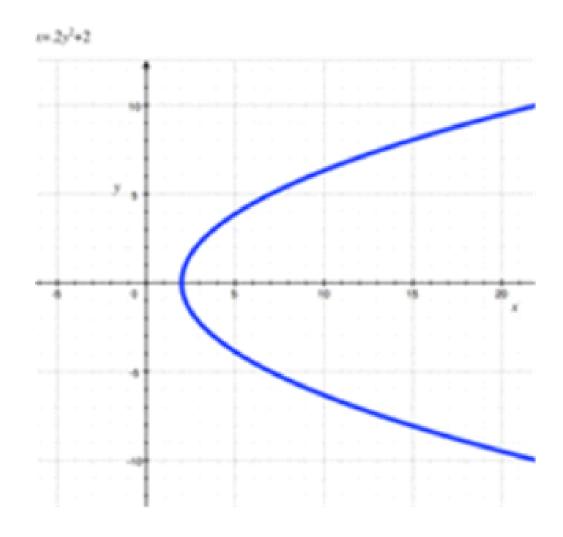
Write an equation in slope-intercept form for the line that passes through (-4,6) and is perpendicular to the graph of 2x + 3y = 12.

What type of correlation?

What is the trend?



Draw a line of best fit?



Is this a function????

Alicia is planning her wedding. She needs to buy tablecloths and burlap for the tables. She wants to spend \$327 on the tables. The tablecloths cost \$11 each and the burlap cost \$9 each.

- a) Write an equation representing this situation.
- b) If Alicia decides to buy 18 pieces of burlap, how many tablecloths can she buy?

	T.	Find the slope.
X	y	
		Graph.
-4	10	
-1	9	Describe the graph.
2	8	
5	7	Domain?
8	6	
		Range?
	1	