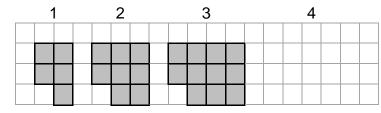
QUIZ 8-4B

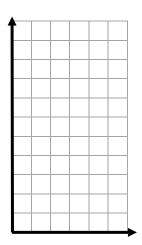
1. Below is a square pattern.

steps:



- a. Draw the 4th step for the pattern.
- b. Complete the table and graph for the square pattern. Make sure to include labels.

step # (x)	# of squares (y)
0	
1	
2	
3	
4	
5	



- c. Write an equation to represent the pattern.
- d. Find the step number when there are 89 squares.
- e. What value represents the rate of change for this pattern?
- f. Interpret the rate of change...

In the picture:

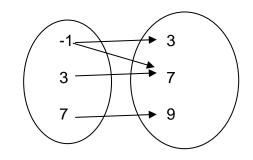
In the table:

In the graph:

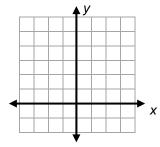
QUIZ 8-4B Continued

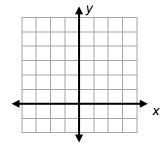
2. Circle all of the three representations below that could represent a function.

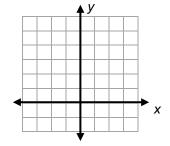
Х	У
4	12
9	9
1	12
5	15
6	20



- 3. Draw the three graphs as described.
 - a. A decreasing linear function
- b. An increasing linear function
- c. A nonlinear non-function







- 4. Alexandria started a savings plan with \$10 in the bank and is saving \$30 each week. Isabella started a savings plan at the same time and kept track on this graph.
 - a. Graph Alexandria's savings on this graph.
 - b. Who is saving at a greater rate? Explain.

