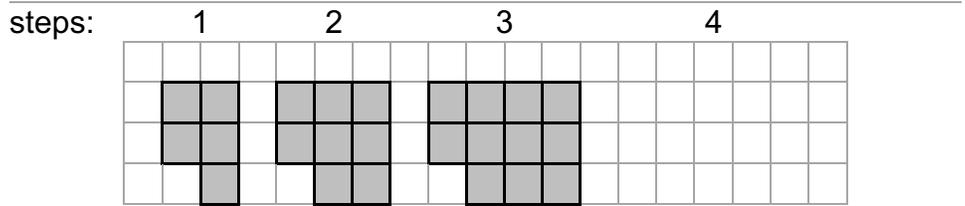


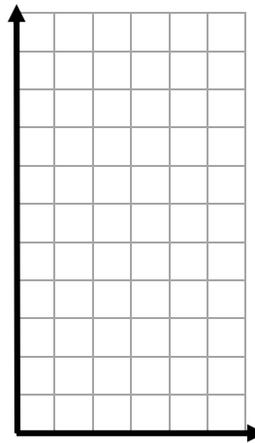
8-4 QUIZ B

1. Below is a square pattern.



- a. Draw the 4th step for the pattern.
- b. Fill in the table for steps 1 – 4 from above, and use the pattern to also complete steps 0 and 5. Then complete a graph (include labels).

step # (<i>x</i>)	# of squares (<i>y</i>)
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:

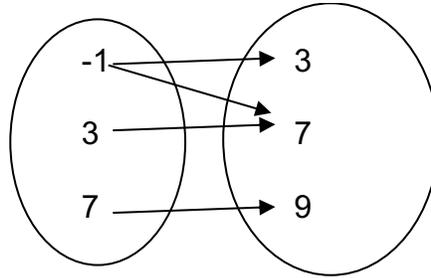
In the table:

In the graph:

8-4 QUIZ B
Continued

2. Of the three representations below, circle all that could represent a function.

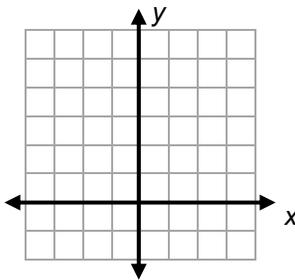
x	y
4	12
9	9
1	12
5	15
6	20



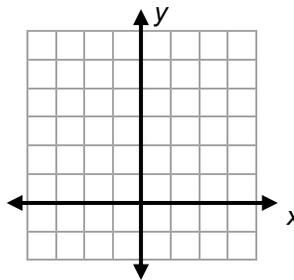
(1, 1), (2, 2), (3, 3), (4, 4)

3. Draw the three graphs as described.

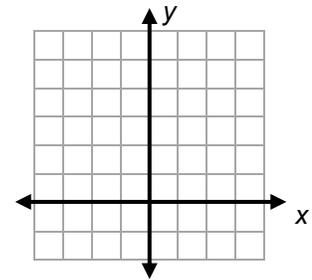
a. A decreasing linear function



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.

