

Name: \_\_\_\_\_

Math 1 Homework  
Patterns of Change

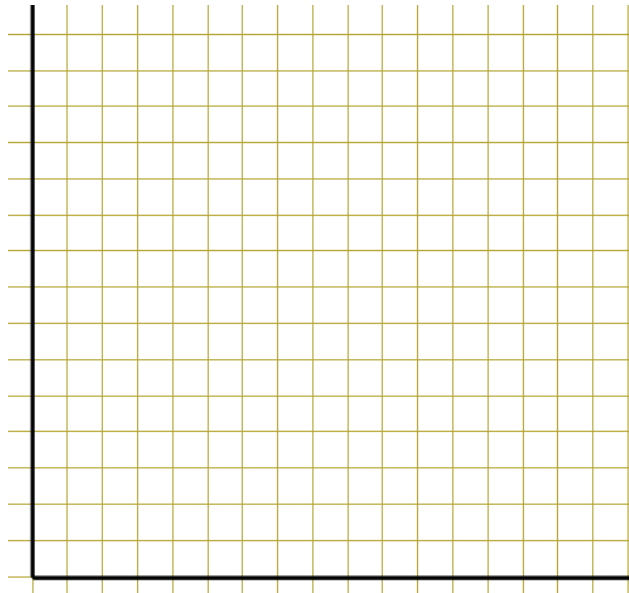
A group of students decided to start a club at their high school. They started off with 5 members and their goal was to recruit an average of 2 new members each month.

1) Fill out the chart below to predict the number of members each month if they keep their goal.

# of months	0	1	2	3	4	5	6	7	8	9	10
# of members											

2) Do you notice a pattern with the data in the chart? If so describe it?

3) Graph the data on grid below.



4) Do you see a pattern in the graph? If so describe it.

5) Which rule or rules correctly shows the number of members  $N$ , after  $m$  number of months?

a)  $N = 5m - 2$

b)  $N = 5 - 2m$

c)  $N = 5 + 2m$

d)  $N = 5m + 2$

e)  $N = 2m + 5$