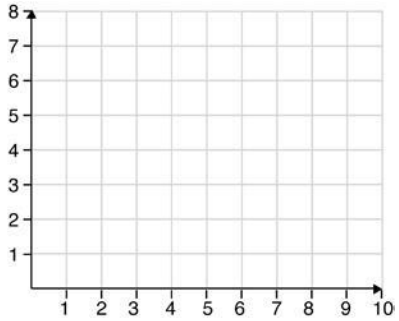
Name:_____ Date:_____ Teacher:_____

Unit 4 Block 6

1. Fill in the missing information about these skates recorded by a student. (Fill in the table, create the graph and/or find the rate.) Assume that these graphs are linear.

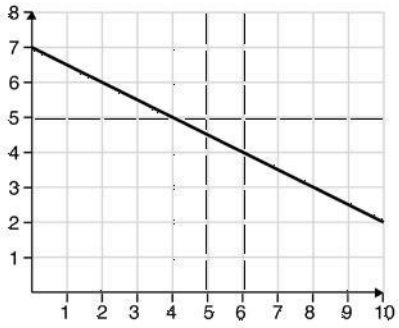
   a. How fast was he skating? _____

Time (sec)	Distance (ft)
0	6
1	5
2	
3	



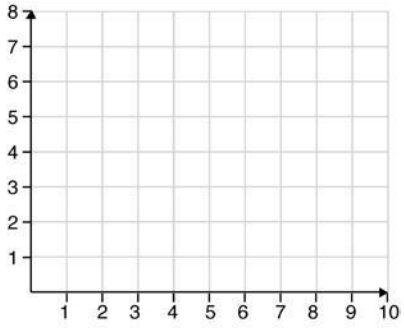
   b. How fast was he skating? _____

Time (sec)	Distance (ft)



   c. How fast was he skating? _____

Time (sec)	Distance (ft)
1	1
2	
3	5
4	

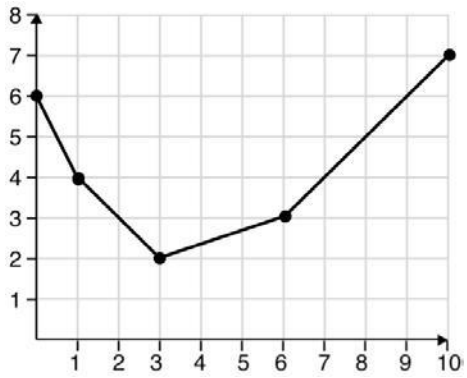


2. What are the differences between a positive rate and a negative rate? Use a graph and a table to support your answer.

3. What does it mean for an elevator to have a rate of ½ floors per second? Use a graph and table to support your answer.

4. The graph shows data collected from a skateboarder's skate. Fill in the missing data from the table. Then use the table to answer the following questions.

Time (sec)	Distance (ft)
0	
1	
3	
6	
10	



a. Find the skateboarder's average rate between 0 and 1 second.

b. Find the skateboarder's average rate between 1 and 3 seconds.

c. Find the skateboarder's average rate between 3 and 6 seconds.

d. Find the skateboarder's average rate between 6 and 10 seconds.

e. Look over your answers for parts a-d. Compare the rates for parts a and b to the rates for parts c and d. What do you notice? What does this mean?

5. Consider the graph in question 4. Write a story to describe the skateboarder's skate.