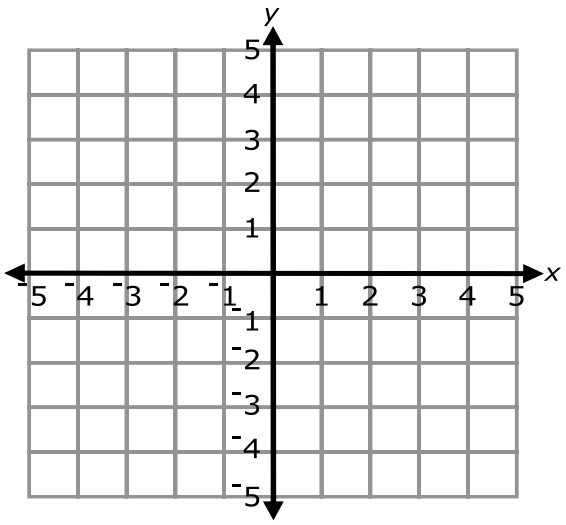
Homework

Fill in the table of values and graph each of the following:

1. $f(x) = 2x - 1$

x	$f(x)$
-1	
0	
1	
2	
3	



Find the rate of change for this graph.

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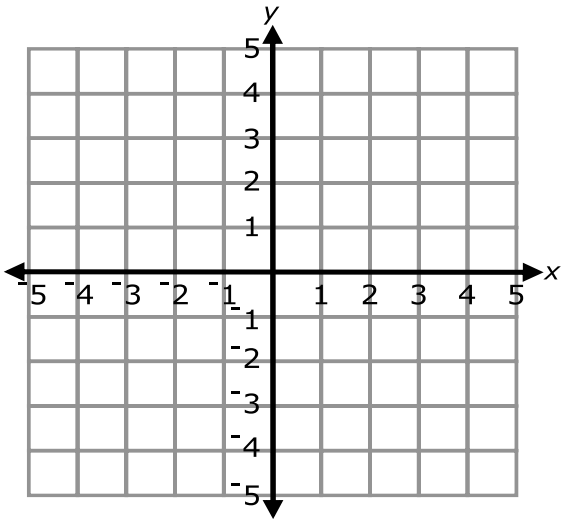
2. $f(x) = -\frac{1}{2}x+2$

x	$f(x)$
-1	
0	
1	
2	
3	



Find the rate of change for this graph.

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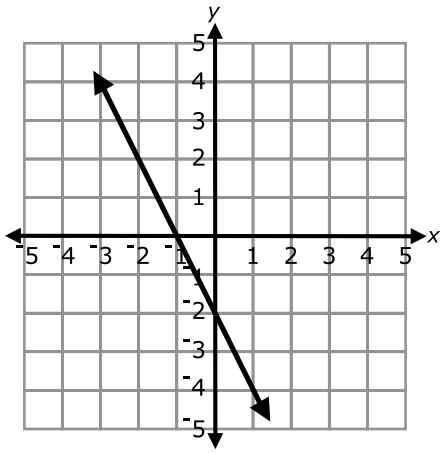
Homework

Use the graph below to complete the following.



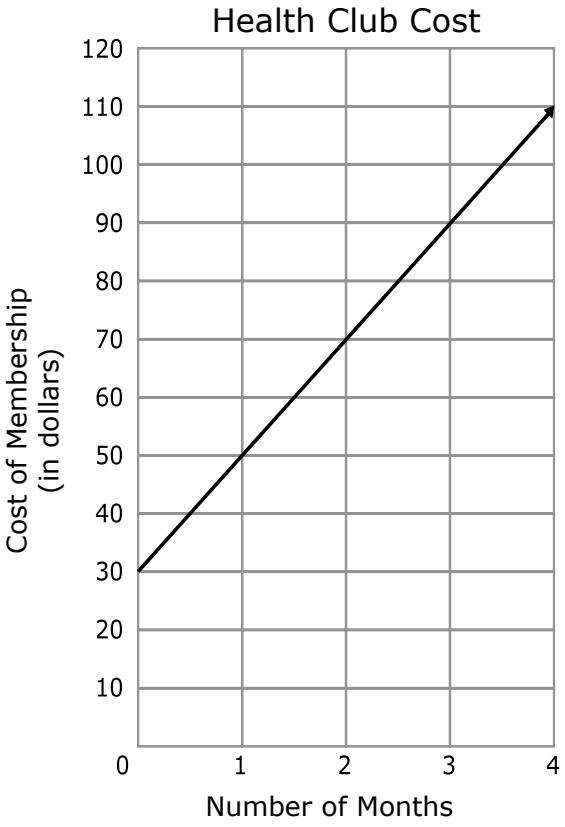
3. Choose two points on the line. Label them *A* and *B***.** State the coordinates of *A* and *B*.

4. Calculate the vertical distance between the two labeled points. Count the grid lines from point A until you are horizontally in line with point *B***.**

5. Calculate the horizontal distance between the two labeled points. Now that you are lined up with point *A*, count the grid lines until you land on point *B*.

6. Give the ratio between the values found in (4) and (5). Simplify this ratio if possible. This will give you the rate of change in the graph.

The graph at right shows the cost of membership for a local health club during a 4-month period. The cost includes an initial fee to join the club plus a monthly charge.



7. What is the initial fee to join the club?

8. What is the total cost of being a member at this club for 4 months?

9. What is the monthly charge (rate of change)?

10. What would it cost to be a member at the club for 5 months?