

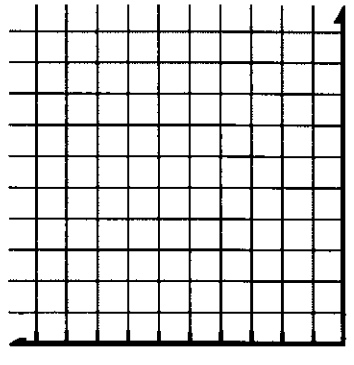
1. Indicate whether the function below is linear or non-linear.

$$y = 2x^2 + x + 4$$

2. Ollie has a \$400 balance on her credit card. She pays \$60 a month on the card. Does this situation have a positive or negative rate of change? Explain.

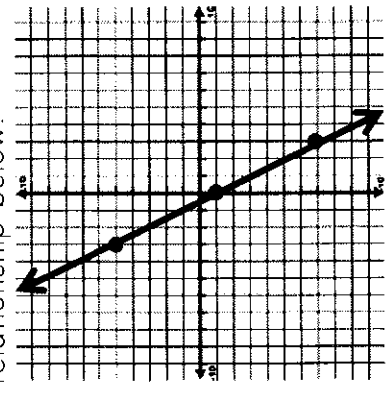
1. A moon bounce can be rented for \$100, plus \$75 per day. Write an expression to represent the total cost, C, of a rental based on the number of days, D, the moon bounce is rented.

2. Graph the expression from #1.

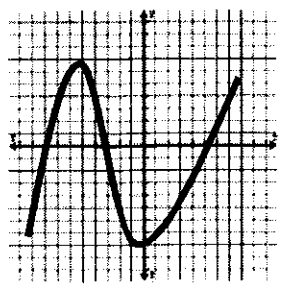
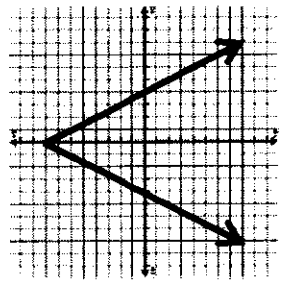


3. A line passes through (-8, 3) and (-6, 4). What is the equation of the line?

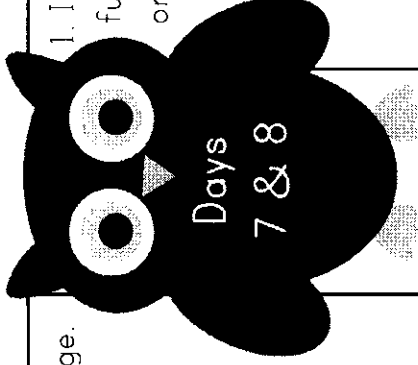
4. Write an equation that models the linear relationship below.



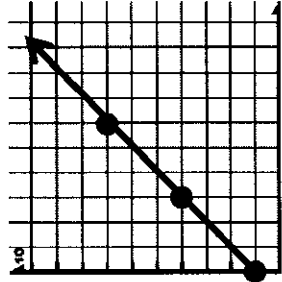
3. Circle the graph that represents a functional relationship. Justify your answer.



 Dates : _____



1. Circle the function with the smallest rate of change. Justify your answer.



$$y = \frac{1}{2}x + 10$$

2. Write an equation for the linear relationship in the graph above.

3. What are the characteristics of a linear relationship?

1. Indicate whether the function below is linear or non linear.

x	y
2	8
4	9
6	10
-4	9

2. Identify two ordered pairs that lie on the line represented by the equation $4x + 6y = 12$

3. A motorcycle rental company charges a \$150 rental fee, plus \$15 for each hour the motorcycle is rented. Write an expression to represent the total cost, C, as a function of the number of hours, H of the rental.

4. Identify which number in the expression in #3 is the rate of change and explain what it means in the context of the problem.

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My score: 1 2 3 4

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