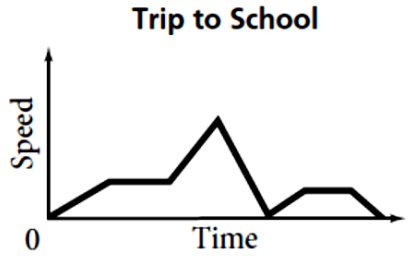
Unit 2 Linear Functions
Day 1 to Day 6 Review #2

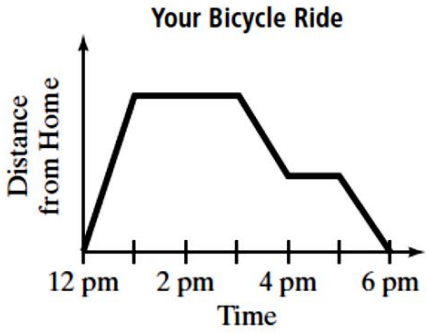
Name: _____
Date: _____ **Hour:** _____

The graph shows the speed a student traveled on the way to school.



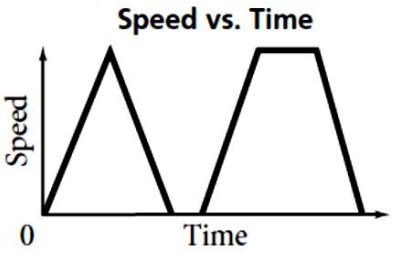
1. What do the flat parts of the graph represent?
2. Circle the sections of the graph that show the speed decreasing.

The graph shows the relationship between time and distance from home.



3. What do the flat parts of the graph represent?
4. What do the sections from 3 P.M. to 4 P.M. and from 5 P.M. to 6 P.M. represent?
5. What does the section from 12 P.M. to 1 P.M. represent?

The graph shows the relationship between time and speed for an airplane.



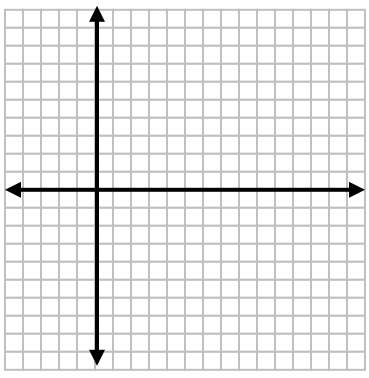
10. Circle the sections of the graph that show the speed increasing.
11. Circle the section of the graph that shows the plane not moving.
12. Circle the section of the graph that shows the plane moving at a constant speed.

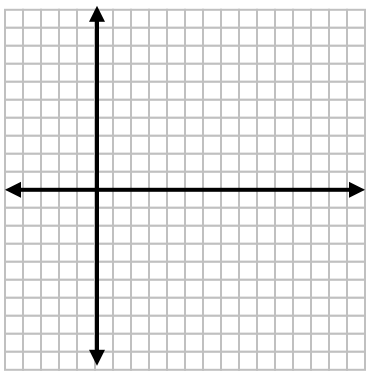
Make a table and then graph each function.

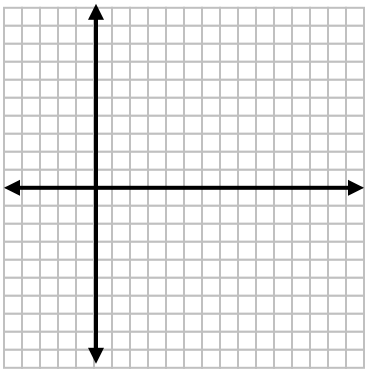
13. $y = \frac{2}{3}x + 4$

14. $y = \frac{4}{5}x$

15. $y = 3x + 2$

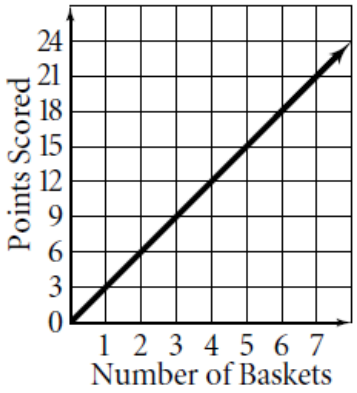




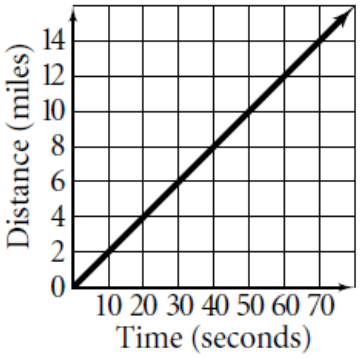


Find the rate of change. Explain, in words, what the rate of change means for each situation.

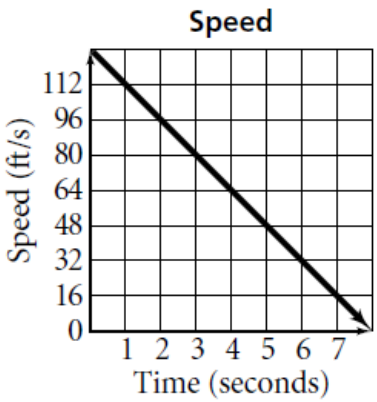
16.



17.



18.



Determine whether each table represents a linear relationship between x and y. If so, write the equation for the data in the table and find the next ordered pair.

19.

x	y
0	−3
−1	−8
−2	−13
−3	−18

20.

x	y
0	3
2	−5
4	−13
6	−21

21.

x	y
1	−6
2	−8
3	−10
4	−12

Rate of Change:_____ **Rate of Change:**_____ **Rate of Change:**_____

y-interecept: _____ **y-interecept:** _____ **y-interecept:** _____

Equation: _____ **Equation:** _____ **Equation:** _____

22. Make up a scenario that can be modeled with a linear equation. Write the equation that works for your scenario.