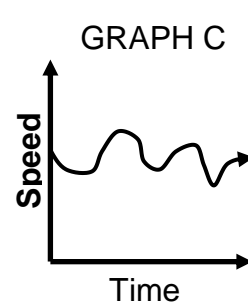
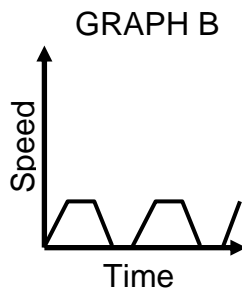
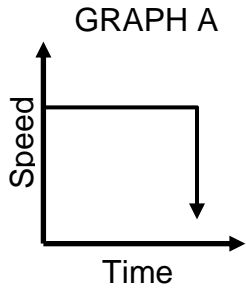


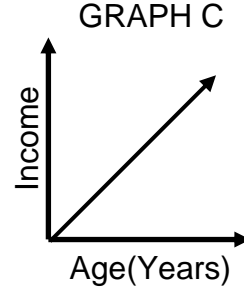
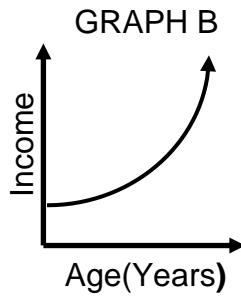
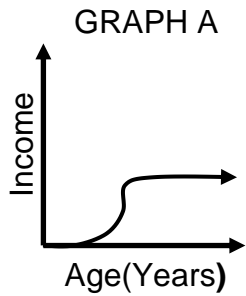
**GRAPHING RELATIONSHIPS**

Identify the graph that matches the statement.

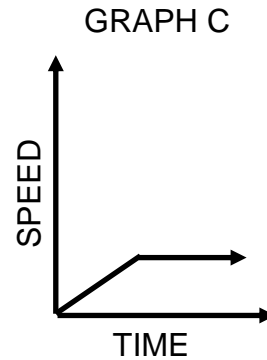
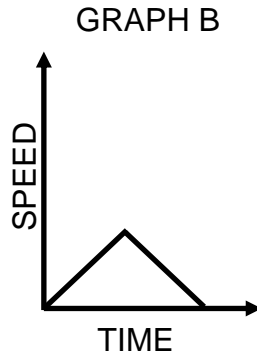
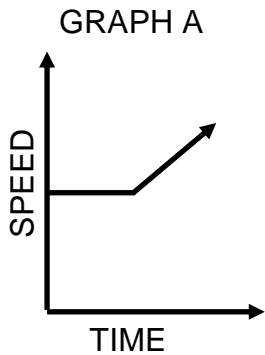
1. A bus frequently stops to pick up passengers.



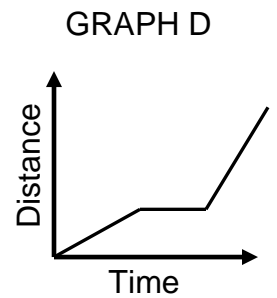
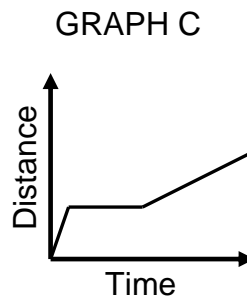
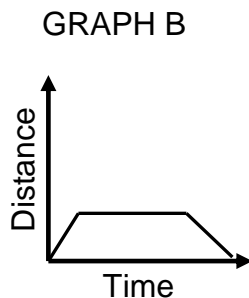
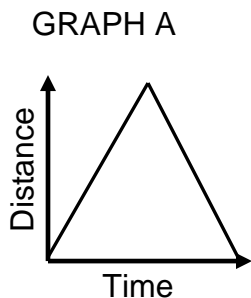
2. Annual income is a function of age.



3. For a certain time Lucy jogs up a hill at a steady speed. Then she runs down the hill and picks up her speed.

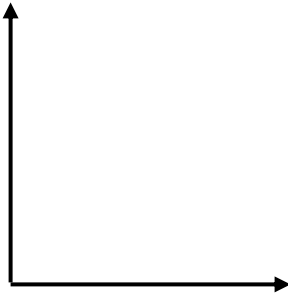


4. On the way to school, Jordan jogs quickly up a hill, takes a break, and then walks slowly down a hill. Which graph best represents Jordan's distance from home during her walk to school?



Sketch a reasonable graph for the situation described (be sure to label your axes), identify the dependent and independent variables, and complete the statement.

5. The amount of force,  $f$ , used to hit your thumb with a hammer, impacts the amount of pain,  $p$ , that you experience.

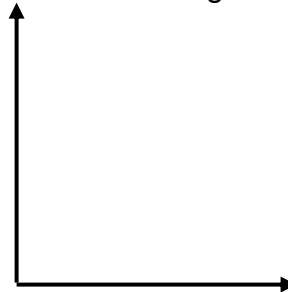


Independent Variable: \_\_\_\_\_

Dependent Variable: \_\_\_\_\_

\_\_\_\_\_ is a function of \_\_\_\_\_.

6. The speed of a radio-controlled car,  $s$ , varies over time,  $t$ . Timmy is operating a radio-controlled car. After turning the car on, its speed increases until it crashes against a wall.



Independent Variable: \_\_\_\_\_

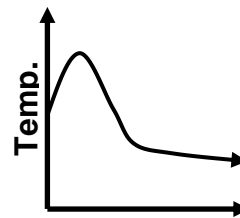
Dependent Variable: \_\_\_\_\_

\_\_\_\_\_ is a function of \_\_\_\_\_.

Match each description to its most appropriate graph.

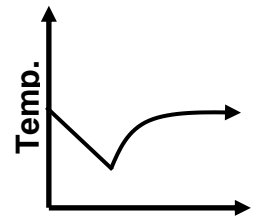
7. _____	In January you enter a cold house and turn up the thermostat to $68^\circ$ .
8. _____	You put a cup of water in the microwave and heat it for one minute.
9. _____	You put ice cubes in your fruit punch and then drink it slowly.
10. _____	In August you enter a hot house and turn on the air conditioner.

GRAPH 1



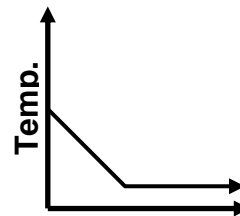
Time

GRAPH 2



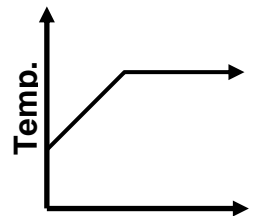
Time

GRAPH 3



Time

GRAPH 4



Time

Review.

11. If  $y = \frac{-4}{5}x - 2$ , what is the value of  $x$  when  $y = -9$ ?