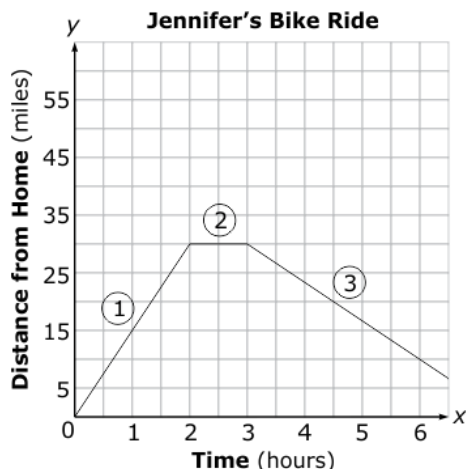## F.5 Mini Quiz:

1.)    Jennifer rode her bike on a trail near her house. The graph below displays the distance from her house as she biked. Which statement is true?

**Jennifer's Bike Ride**



A.) Jennifer biked up a steep hill in section 1.

B.) Jennifer biked at the same rate to and from her home.

C.) Jennifer biked back to her house in section 3.

D.) Jennifer biked at a constant rate in section 2.

2.)    The graph below shows the distance a school bus is from school. Which sections **best** describes when the bus is returning to school?
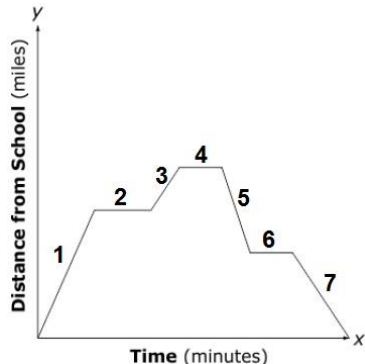


A.)    1 & 3            B.)    2 & 4

C.)    5 & 7            D.)    4 & 6

3.)    The following graph represents temperature over time. Which scenario matches the graph?
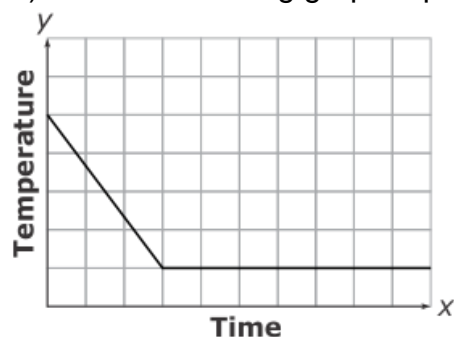


A.) A warm oven is turned up to a higher temperature.

B.) A pizza is taken out of the oven and left on a table to  cool.

C.) A cold oven is preheating to a certain temperature.

D.) A pie is taken out of the freezer and is baking in the oven.

4.)     Jason drove to the beach. He recorded his travel time and distance in the graph below. Which statement is true?

**Travel Time to the Beach**
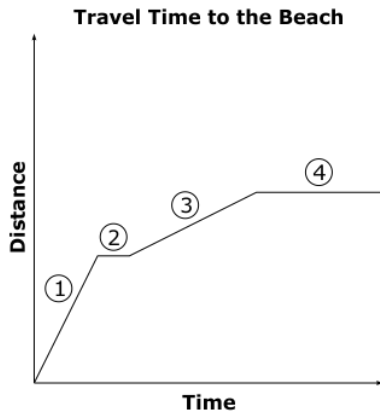
A.) Jason's car was driving at a constant rate for 2 and 4.

B.) Jason was driving up a hill in sections 1 and 3.

C.) Jason drove the entire time to the beach.

D.) Jason was driving faster at section 1 than section 3.

5.) Sydney graphed her distance from home compared to the amount of time she walked. Which **best** describes her walk between minute 30 and minute 60?
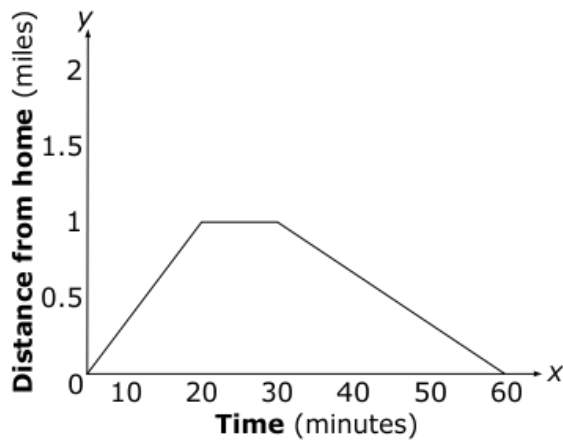
A.) Sydney is walking toward her home at a faster rate than the rate at which she walked away from home.

B.) Sydney is walking toward her home at a slower rate than the rate at which she walked away from home.

C.) Sydney is walking away from her home at a slower rate than the rate at which she walked toward her home.

6.) The graph below shows a student's bus ride to school. Which scenario **best** represents part 3 on the graph?
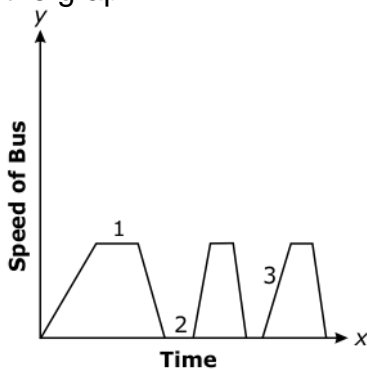
A.) The bus is increasing speed at a constant rate

B.) The bus is traveling at a constant speed.

C.) The bus is stopped to pick up students.

D.) The bus is driving up and down hills.

7.) Jenny is running upstairs when the school bell rings. At the top of the stairs, she then walks to her classroom at a constant rate. Which graph *best* models the scenario?

A.) Time

B.) Time

C.) Time

D.) Time
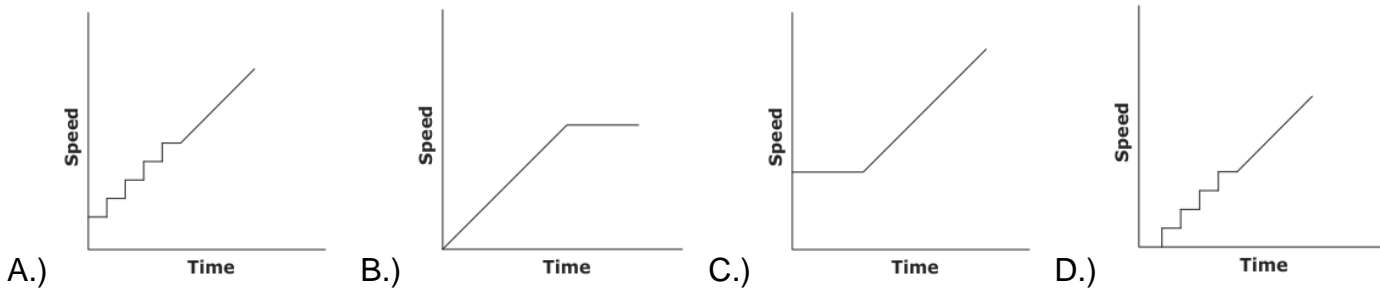
8.) Joey is cooking pasta sauce for his spaghetti. He brings the sauce to a boil and continues to boil for 20 minutes. He then reduces the heat and cooks on low for 5 minutes before serving. Which graph *best* represents the cooking for his sauce?

A.) Time

B.) Time

C.) Time

D.) Time
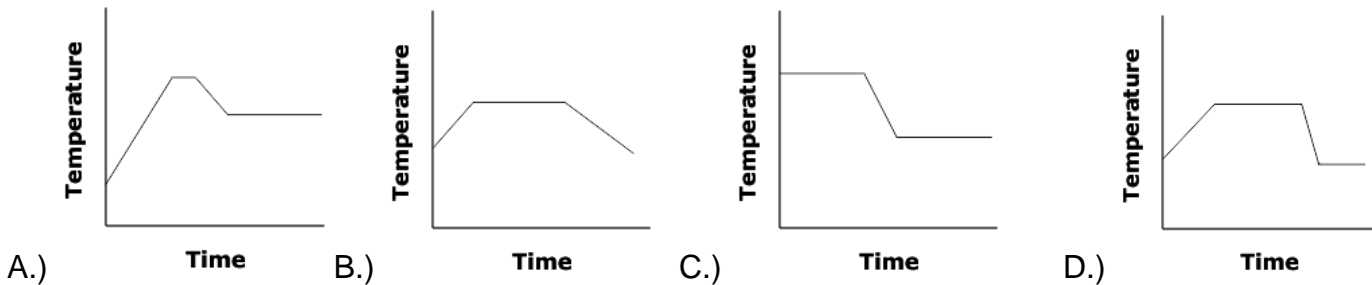
9.) The graph below details Sally's daily trip to work. Which is the *best* scenario for part 4 on the graph?

Sally's Trip to Work
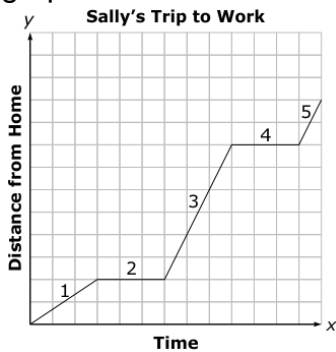
A.) Sally is stopping to get gas.

B.) Sally is driving on an incline at a constant rate.

C.) Sally is driving on a highway at a constant rate.

D.) Sally is speeding up then slowing down through a neighborhood.

10.) Emily went to the beach for the day. Leaving her house, Emily drove to the beach, stayed there for a few hours, then drove toward home, stopped for dinner before returning home. Which graph *best* represents this scenario?

A.) Time

B.) Time

C.) Time
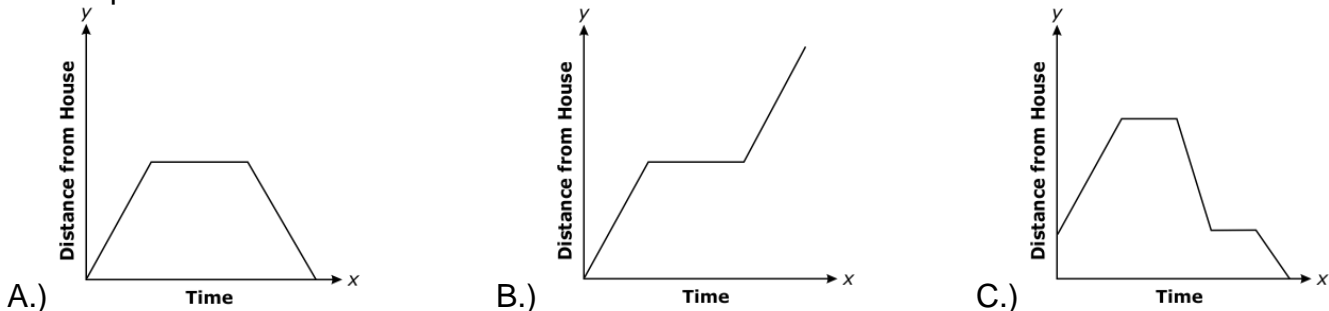
11)    The graph below shows the relationship between time and the balance in a checking account over a twelve-month period. Based on the graph, which statement is true?
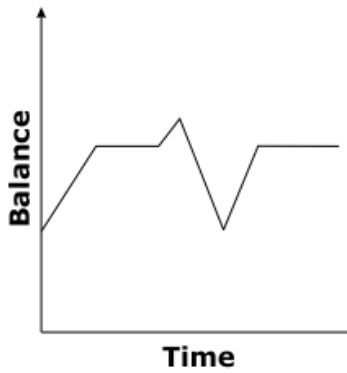
A.) The balance in the account never drops below the starting balance.

B.) The balance at the end of the twelve-month period is the same as the beginning balance.

C.) The balance in the account increases at a steady rate, decreases at a steady rate and then levels off.

D.) The balance in the account increases at the beginning, and then decreases by the end of the twelve-month period.

12)    Which statement **best** describes the function below between points A and B?
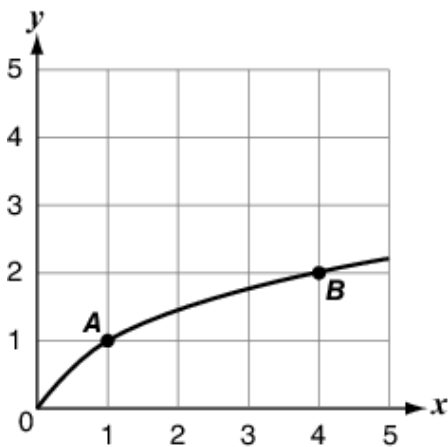
A)    The function is increasing and linear

B)    The function is decreasing and linear

C)    The function is increasing and nonlinear

D)    The function is decreasing and nonlinear

13)    Which of the following statements are true about the graph below?
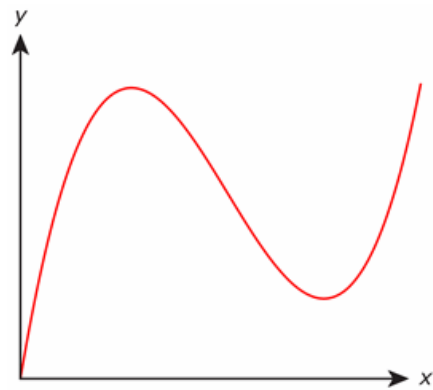
1)    The graph models a linear function which is both increasing and decreasing.

2)    The graph models a nonlinear function which is both increasing and decreasing.

3)    The function could represent the speed of a car that left the garage, increased its speed, slowed for a school zone, and then increased its speed again.

4)    The function could represent the value of stock that decreased before they increased and then decreased again.

5)    The function could represent temperature that increased before it decreased and then remained the same the rest of the afternoon.

A)    1 and 2          B)    2 and 3          C)    1 and 4          D)    3 and 5

1.)    Write a scenario that BEST represents the graph below.



_____

_____

_____.