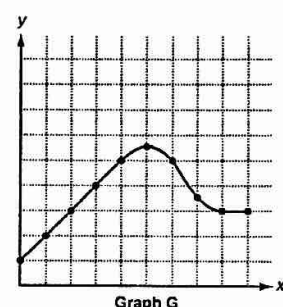
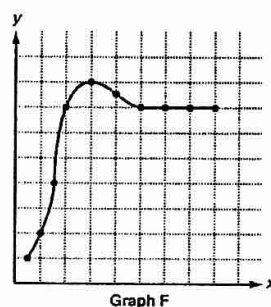
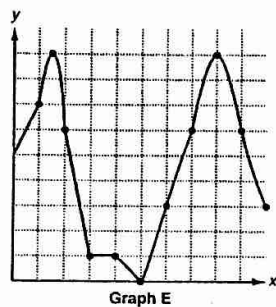
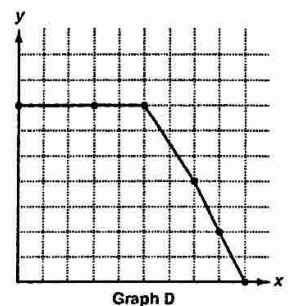
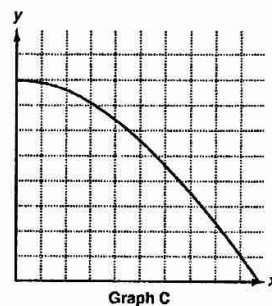
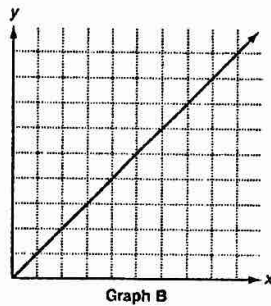
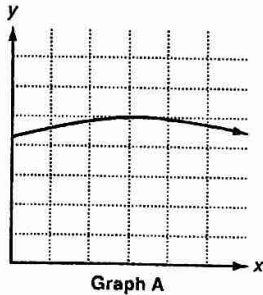


LESSON **Practice A**
9-1 *Multiple Representations of Functions*

Match each situation to its corresponding graph.

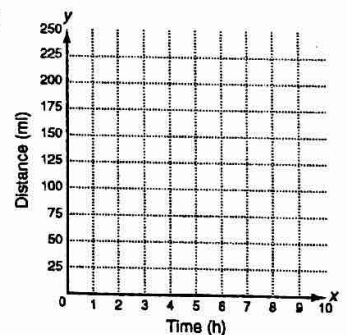


1. A bowling ball rolls down the alley and drops into a trough behind the pins. Which graph shows a horizontal line that suddenly drops? _____
2. As a flower vase is filled with water, the level of the water rises. _____
3. A football is kicked and then caught by a person who runs down the football field with it. _____
4. The sales of wide-screen televisions increase rapidly, peak, and then level off. _____
5. Ice cream sales were steady all day at the music festival. _____
6. A restaurant opens late in the morning, experiences a lunchtime rush, and then empties right before the dinner rush. _____
7. The noise level of traffic decreases after the evening rush hour. _____

Solve.

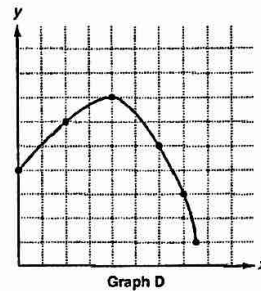
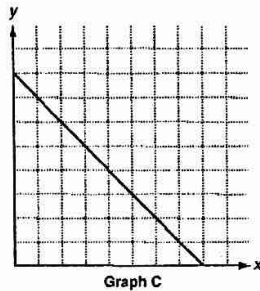
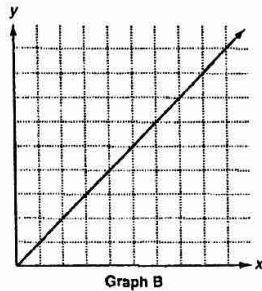
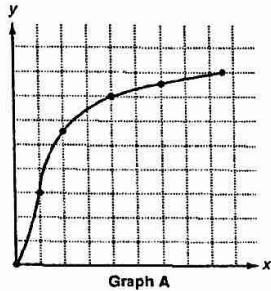
8. A train begins a trip of 240 miles. The train averages 40 miles per hour including stops. Create a table, a graph, and an equation to represent the distance the train travels in relation to time.

Time (h)				
Distance (mi)				



LESSON 9-1 Practice B
Multiple Representations of Functions

Match each situation to its corresponding graph. Sketch a possible graph of the situation if it does not match any of the given graphs.

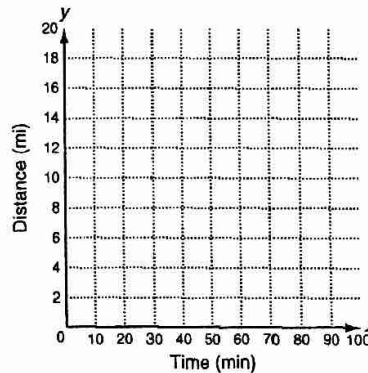


1. A train is approaching its destination. _____
2. The temperature on an autumn day increases until late afternoon and then drops dramatically by late evening. _____
3. A helium balloon is released by a running child on a calm day. _____
4. A golf ball hit by a golfer flies over the trees and disappears into the woods. _____

Solve.

5. A bicyclist leaves a rest stop at 1:00 and heads directly for home at a constant rate. The table shows how far, d , he is from home in miles as a function of time, t . Create a graph and an equation to predict the time he will arrive home.

t	1:00	1:10	1:20	1:30	1:40
d	18.5	16.0	13.5	11.0	8.5



6. New members at a fitness club pay \$200 to start and then \$20 per month for life. Create a table, a graph, and an equation that represent the total cost of enrollment, c , as a function of months, m , of participation.

m			
c			

