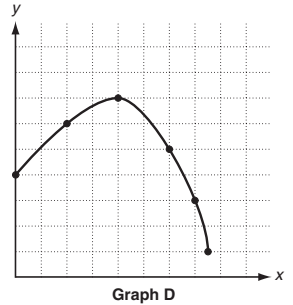
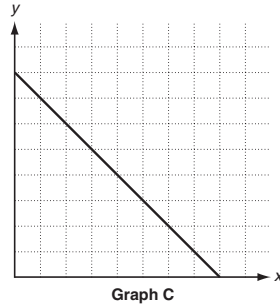
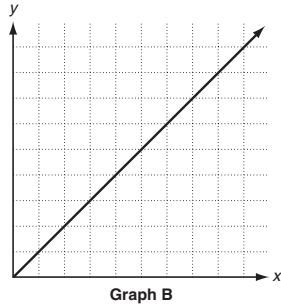
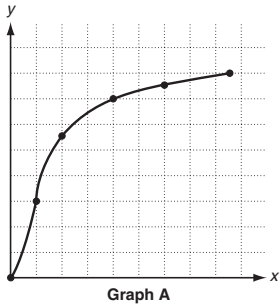




Practice B

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.

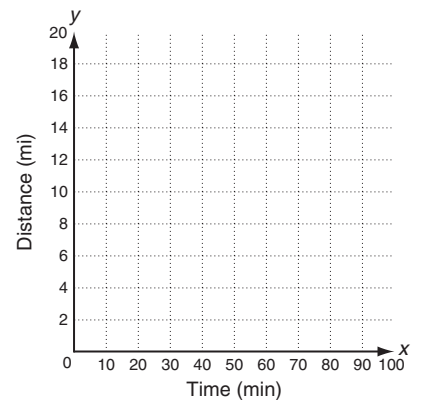


1. A train is approaching its destination. _____
2. The temperature on an autumn day increases until late afternoon and then drops dramatically by late evening. _____
3. A helium balloon is released by a running child on a calm day. _____
4. A golf ball hit by a golfer flies over the trees and disappears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

Solve.

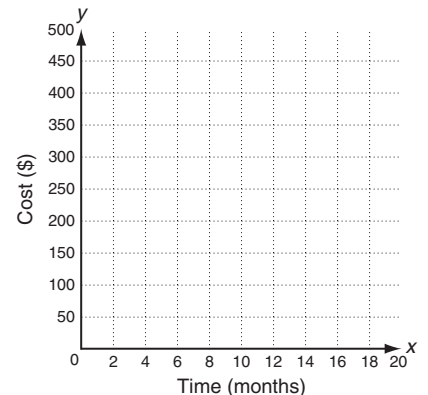
5. A bicyclist leaves a rest stop at 1:00 and heads directly for home at a constant rate. The table shows how far, d , he is from home in miles as a function of time, t . Create a graph and an equation to predict the time he will arrive home.

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			

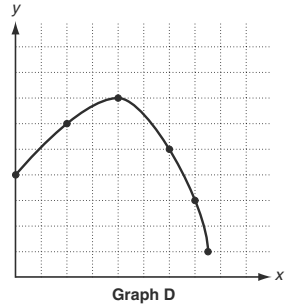
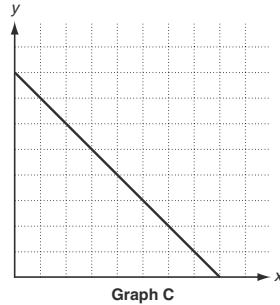
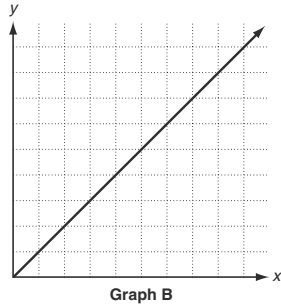
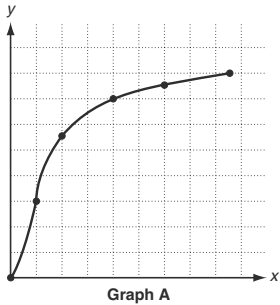




Practice B

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.

C

D

B

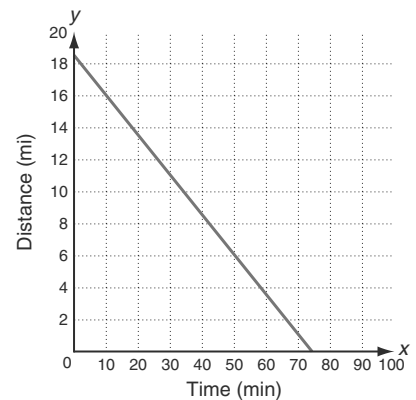
A

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

$$d = -0.25t + 17.5$$



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	1	2	3
c	220	240	260

$$c = 20m + 200$$

