

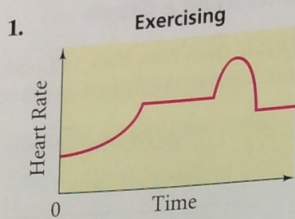
EXERCISES

Practice and Problem Solving

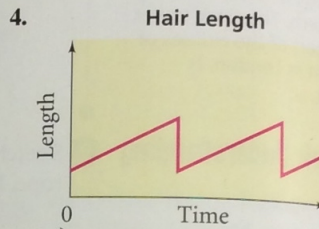
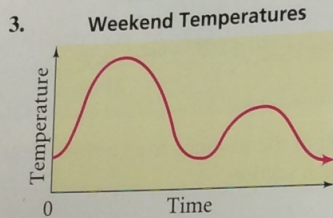
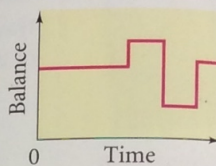
A Practice by Example

Copy each graph. Label each section of the graph.

Example 1
(page 236)



2. **Checking Account**



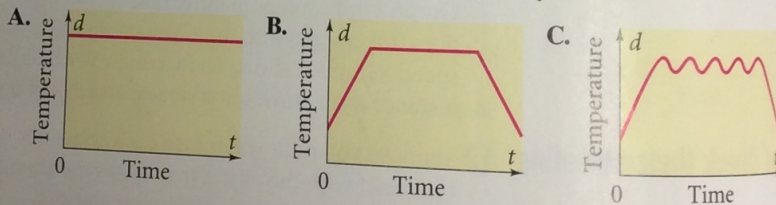
Example 2
(page 237)

Sketch a graph of each situation. Label each section.

5. hours of daylight over the course of one year
6. your distance from the ground as you ride a Ferris wheel for five minutes
7. your pulse rate as you watch a scary movie
8. your walking speed during five minutes between classes

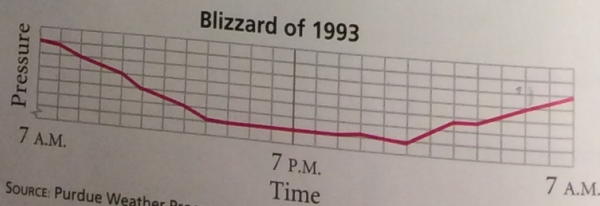
Example 3
(page 237)

9. **Cooking** You turn on your oven to bake a casserole. Which graph best represents the oven temperature over time? Explain your choice.

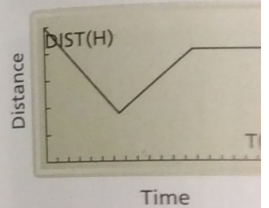
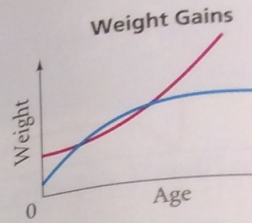


B Apply Your Skills

10. **Weather** The graph shows the barometric pressure in Pittsburgh, Pennsylvania, during a blizzard. Describe what happened to the pressure during the storm.

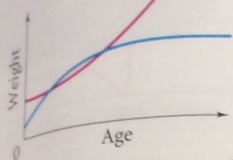


11. Sketch graphs of each situation. Are the graphs the same? Explain.
 - a. Your speed as you travel from the bottom of a ski slope to the top.
 - b. Your speed as you travel from the top of a ski slope to the bottom.



C Cha

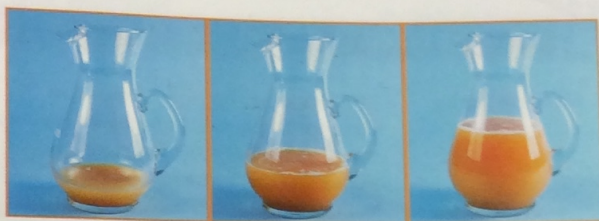
Weight Gains



12. The graph at the left shows the weight of a baby and the weight of a puppy for their first two years.

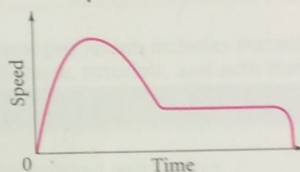
- a. Which curve represents the puppy's weight? The baby's weight?
 b. **Writing** Describe the growth patterns of the baby and the puppy.

13. You pour juice into a pitcher like the one shown in the photographs below. You pour the juice at a constant rate. Make a sketch to show the height of juice in the pitcher as you fill it.

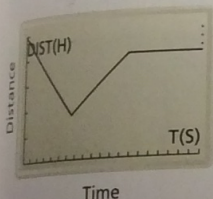


14. **Error Analysis** The graph at the right shows a person's speed over the course of a bike ride. Your friend said that this graph describes a person bicycling up and then down a hill. Explain your friend's error.

Speed on a Bike Ride

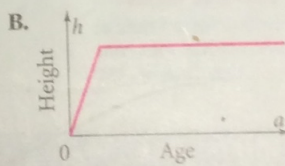
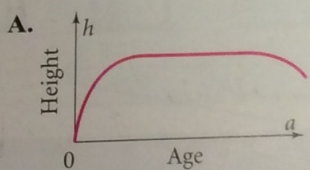


15. A student used a graphing calculator, a data collector, and a motion detector to make the graph at the left, which shows a classmate's distance from the motion detector.



- a. Copy the graph and label each section.
 b. During which section was the student walking toward the motion detector?
 c. During which section(s) was the student walking at a constant speed?

16. Which graph better represents a person's change in height from birth to age 80? Explain your choice.

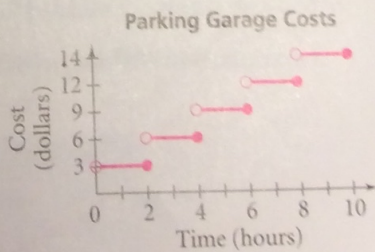


17. a. **Open-Ended** Sketch a graph of the daily high temperature over the course of one year for your town.
 b. **Critical Thinking** How would your graph be different if you lived at the equator?

Challenge

Use the graph at the right for Exercises 18–21.

18. How much does it cost to park for 2 hours?
 19. How much does it cost to park for 121 minutes?
 20. Suppose your mother pays \$6 for parking. About how long was her car parked in the garage?



21. **Vocabulary** This graph is a *step graph*. Does this name make sense? Explain.