

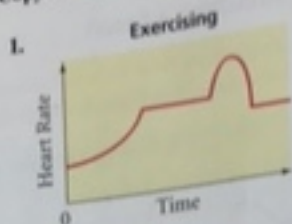
EXERCISES

Practice and Problem Solving

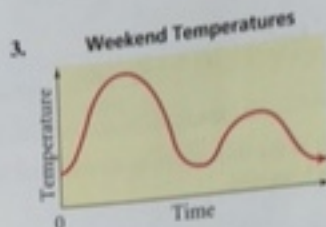
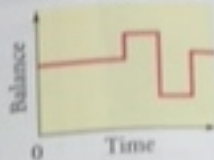
Practice by Example

Example 1
(page 236)

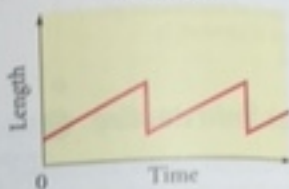
Copy each graph. Label each section of the graph.



2. **Checking Account**



4. **Hair Length**



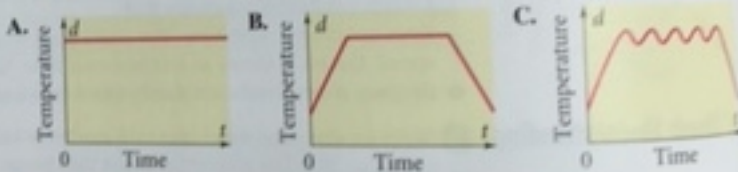
Example 2
(page 237)

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

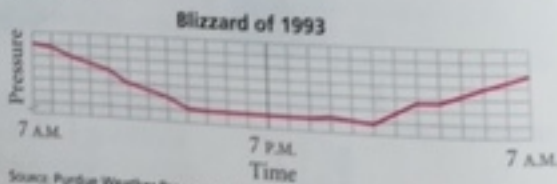
Example 3
(page 237)

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

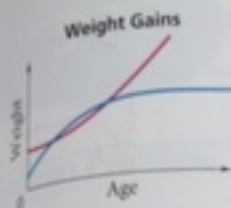


B Apply Your Skills

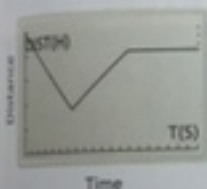
10. **Weather** The graph shows the barometric pressure in Pittsburgh, Pennsylvania, during a blizzard. Describe what happened to the pressure during the storm.



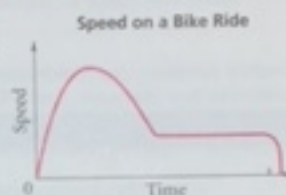
11. Sketch graphs of each situation. Are the graphs the same? Explain.
- a. Your speed as you travel from the bottom of a ski slope to the top.
 - b. Your speed as you travel from the top of a ski slope to the bottom.



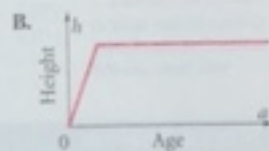
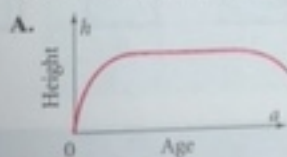
12. The graph at the left shows the weight of a baby and the weight of a puppy for their first two years.
- Which curve represents the puppy's weight? The baby's weight?
 - Writing** Describe the growth patterns of the baby and the puppy.
13. You pour juice into a pitcher like the one shown in the photographs 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.



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.
- Copy the graph and label each section.
 - During which section was the student walking toward the motion detector?
 - 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.

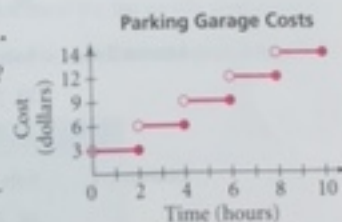


17. a. **Open-Ended** Sketch a graph of the daily high temperature over the course of one year for your town.
 b. **Critical Thinking** How would your graph be different if you lived at the equator?

C 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.