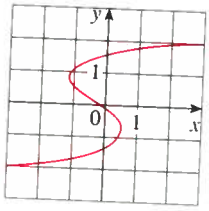
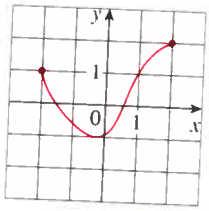
5–8 Determine whether the curve is the graph of a function of x. If it is, state the domain and range of the function.

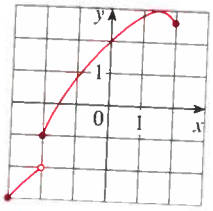
5.



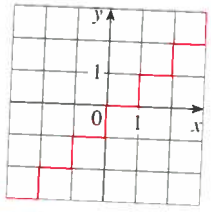
6.



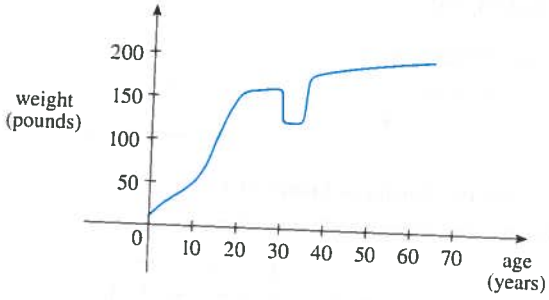
7.



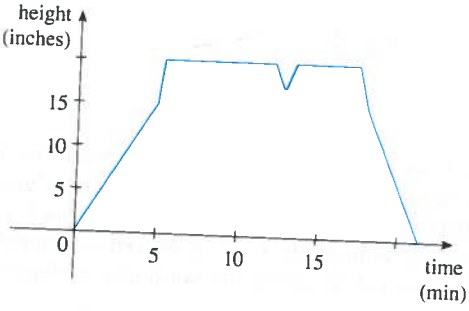
8.



9. The graph shown gives the weight of a certain person as a function of age. Describe in words how this person's weight varies over time. What do you think happened when this person was 30 years old?

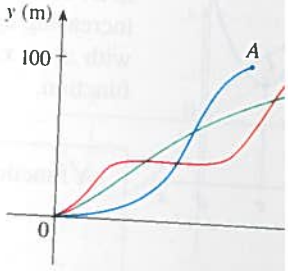


10. The graph shows the height of the water in a bathtub as a function of time. Give a verbal description of what you think happened.

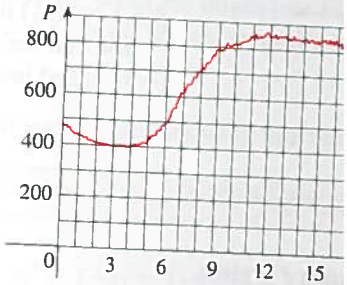


11. You put some ice cubes in a glass, fill the glass with cold water, and then let the glass sit on a table. Describe how the temperature of the water changes as time passes. Then sketch a rough graph of the temperature of the water as a function of the elapsed time.

12. Three runners compete in a 100-meter race. The graph depicts the distance run as a function of time for each runner. Describe in words what the graph tells you abo race? Did each runner finish the race



13. The graph shows the power consumpti ber in San Francisco. (P is measured ir sured in hours starting at midnight.)
(a) What was the power consumption a
(b) When was the power consumption the highest? Do these times seem re



14. Sketch a rough graph of the number of h function of the time of year.

15. Sketch a rough graph of the outdoor temp of time during a typical spring day.

16. Sketch a rough graph of the market value function of time for a period of 20 years. well maintained.

17. Sketch the graph of the amount of a partic sold by a store as a function of the price o

18. You place a frozen pie in an oven and bake you take it out and let it cool before eating temperature of the pie changes as time pas rough graph of the temperature of the pie a

19. A homeowner mows the lawn every Wedne Sketch a rough graph of the height of the g time over the course of a four-week period.

20. An airplane takes off from an airport and la another airport, 400 miles away. If t represe utes since the plane has left the terminal bui