- 14. Which will deliver a higher future value after one year, a deposit of \$1,000 attracting interest at 4% compounded daily, or at 4.1% compounded semiannually?
- 15. What initial investment subject to annual compounding at 4% is needed to earn \$1,000 in interest after two years?
- 16. How much can you borrow if the interest rate is 12%, you can afford to pay \$14,000 at the end of each year, and you want to clear the loan in 10 years?
- 17. Suppose that you deposit \$1,500 at the end of each year for 40 years, subject to annual compounding at a constant rate of 4%. Find the balance after 40 years.
- 18. An investor receives \$1,100 in one year in return for an investment of \$1,000 now. Calculate the percentage return per annum with (a) annual, (b) semiannual, (c) monthly, (d) daily, (e) continuous compounding.
- 19. What will be the difference between the value after one year of \$100 deposited at 10% compounded monthly and compounded continuously? For which frequencies of periodic compounding is the difference less than 1 cent?
- 20. An interest rate is quoted as 5% per annum with semiannual compounding. What is the equivalent rate with (a) annual, (b) monthly, and (c) continuous compounding?