Section 3.1 Additional Problems

- 1. An *n* payment interest only loan with interest rate *i* consists of *n*-1 payment of *iL* (the interest owed) and a last payment of *iL*+*L*. Show that the present value of these payments at interest rate *i* is *L*.
- Suppose you borrow \$20,000 at an effective period rate of *i*. The loan will be paid back with 20 payments at the end of each period. Each payment will consist of \$1,000 plus the interest owed for that period. For example, the first payment will be \$1,000 + \$20,000*i*. Show that the present value of these payments at interest rate *i* is \$20,000.