1. **Section 2.5**
   Ashley has $120,000 to invest and decides to put some in a certificate of deposit (CD) that earns 4% interest per year and the rest in a low risk stock that earns 7%.
   a. Let $x$ represent the amount of money Ashley put in a CD. Write an expression (linear) that represents amount of interest that she will earn at the end of one year.
   b. If her plan is to earn $7,800 from interest, how much should Ashley invest in each account?

2. **Section 2.5**
   You are choosing between two long distance telephone plans. Plan A has a monthly fee of $15 with a charge of $0.08 per minute for a long distance call. Plan B has a monthly fee of $3 with a charge of $0.12 per minute for a long distance call. Let $n$ represent the number of minutes of long distance calls.
   a. Write an expression for making $n$ minutes of long distance calls under plan A.
   b. Write an expression for making $n$ minutes of long distance calls under plan B.
   c. How many minutes of long distance calls do you have to make for the cost under the two plans to be the same?

3. **Section 2.5**
   A bottled iced tea manufacturer saw profit increase by 65% last year over the previous year. This year, due to much new competition, profit fell 40%. The total profit over the last three years is $17,820.00. Let $x$ represent last year’s profit.
   a. Find an expression for the profit at the end of the 1st year.
   b. Find an expression for the profit at the end of the 3rd year.
   c. Find an expression for the total profit over the last three years
   d. Calculate the profit at the end of each year.