### 10.1 Exercises

The Robinson Formula In 1983, Dr. J.D. Robinson published a formula for ideal weight. In Exercises 1-6, use the formula. (See Example 1.)

1. Find the ideal weight of a woman who is 5 feet 2 inches tall.
2. Find the ideal weight of a man who is 5 feet 3 inches tall.
3. Find the ideal weight of a man who is 6 feet tall.
4. Find the ideal weight of a woman who is 6 feet 4 inches tall.

5. How do you think you should calculate the ideal weight of a person who is shorter than 5 feet tall? Explain your reasoning. Then find the ideal weight of a woman who is 4 feet 8 inches tall.
6. Compare the ideal weights for men and women given by the Robinson formula.

Body Fat Percentage In Exercises 7 and 8, find (a) the body fat percentage and (b) the body mass index for the person shown. (See Example 2.)


