Geometry Review

- 1. A triangle has sides that are each 8 m long. Find the area of the triangle.
- 2. A cord of seasoned almond wood contains 128 cubic feet and costs \$190. How much should you pay for a pile of wood that is 5 feet wide, 3 feet high and 8 feet long?
- 3. In a right triangle having one angle of 60°, the length of the side adjacent to the 60° angle is 7 inches. What is the length of the hypotenuse?
- 4. A circular swimming pool has a diameter of 45 feet and is surrounded by a concrete sidewalk that is 5 feet wide. What is the area of the sidewalk?
- 5. A ladder is leaning against a building. If the bottom of the ladder is $7\frac{1}{2}$ feet from the wall and the top of the ladder is 10 feet above the ground, how long is the ladder?
- 6. Ron Thiele bought an older house and wants to put in a new concrete driveway. The driveway will be 36 feet long, 9 feet wide, and 6 inches thick. Concrete is measured by the cubic yard. One sack of dry cement mix costs \$7.30, and it takes four sacks to mix up 1 cubic yard of concrete. How much will it cost Ron to buy the cement?
- 7. A 5.4-foot-tall woman casts a shadow of 2 feet at the same instant that a telephone pole casts a shadow of 9 feet. How tall is the pole?
- 8. The Sears Tower (in Chicago) is the tallest building in the United States. From a point 900 feet from the building, you measure the angle of elevation of the top of the building. If the angle is 58.24°, how tall (to the nearest foot) is the Sears Tower?
- 9. You jog $\frac{3}{4}$ mile due north, then jog $1\frac{1}{2}$ miles due east, and then return to your starting point via a straight line path. How many miles have your jogged?