

- **5.** A gazebo in the shape of a regular octagon has equal sides of 9 feet and an apothem of 10.9 feet.
  - **a.** If one side of a gazebo is open, and the other sides have a railing, find the cost of the railing if it sells for \$7.90 per foot.
  - **b.** Find the area of the gazebo.
  - **c.** Find the cost of the gazebo's floor if the flooring costs \$3 per square foot. Round to the nearest hundred dollars.