9-7 Self Evaluation Test

- Name four common conductor forms and state one practical application for each.
- 2. What are three important factors to be considered when selecting the type of wire insulation to be used for a particular job?
- 3. What is the relationship between the AWG number and the diameter of the wire?
- 4. State the AWG size of copper wire most commonly used for each of the following house circuits:
 - (a) dryer circuit
 - (b) range circuit
 - (c) electrical outlets and lighting circuits
 - (d) electric water heater circuit.

- (a) Define the term conductor ampacity.
 - (b) List four factors that determine the ampacity of a conductor.
- State the effect of each of the following on the resistance value of a circuit conductor:
 - (a) increasing the length of the conductor,
 - (b) decreasing the diameter of the conductor,
 - (c) increasing the operating temperature of the conductor,
 - (d) using an aluminum conductor in place of copper.
- 7. (a) What is meant by the term *line* voltage drop?
 - (b) Under what condition is the line voltage drop considered to be zero?