## 7 ANGLES, AZIMUTHS, AND BEARINGS

Asterisks (\*) indicate problems that have partial answers given in Appendix G.

**7.1** Define the different reference meridians that can be used for the direction of a line. See Section 7.4.

**Geodetic or true**: Reference to geodetic north, which is referenced to the average position of the poles between 1900.0 and 1905.0

**Astronomic**: Reference meridians taken from instantaneous position of Earth's pole, which wanders over time.

Magnetic: Reference meridian taken from current position of magnetic poles.

**Grid:** Reference meridian chosen from some map projection system such as the state plane coordinate system where all meridians are parallel to the central meridian of the projection.

**Record or deed:** Reference meridian selected from a recorded deed by using the value given for one line in the deed.

**Assumed:** A value of  $0^{\circ}$  arbitrarily assigned to a line on the ground.

**7.2** List the three basic requirements in determining an angle.

From Section 7.1, paragraph 2:

"...they are (1) reference or starting line, (2) direction of turning, and (3) angular distance (value of the angle)."