

Your diagrams should show that Sun angle varies with season and location. Since such variability greatly influences weather patterns, it is useful to be able to calculate the noon Sun angle for a given latitude. We must first define a few terms (Figure 2-5):

- **subsolar point**—the latitude at which the Sun is directly overhead at solar noon
- **zenith angle**—the angle between a point directly overhead and the Sun at solar noon
- **solar elevation (Sun) angle**—the angle of the Sun above the horizon at solar noon



Figure 2-5. Defining angles.

Since we can assume that the Sun's rays strike Earth in straight, parallel paths, we see that the zenith angle of any location is the same as the number of degrees separating the location and the place receiving direct solar rays. Notice in Figure 2-6 that the zenith angle  $A$  at  $40^\circ$  N is the same as the latitude difference between  $40^\circ$  N and the subsolar point (where the Sun's rays strike directly —  $23.5^\circ$  S here).

2. In Figure 2-6, how many latitude degrees separate the person at  $40^\circ$  N and the place receiving direct solar rays? \_\_\_\_\_ What is the date of this example?

Notice that the zenith angle plus the solar elevation angle sum to  $90^\circ$ . Solar elevation always equals  $90^\circ$  minus the zenith angle.

3. What is the solar elevation angle in Figure 2-6?

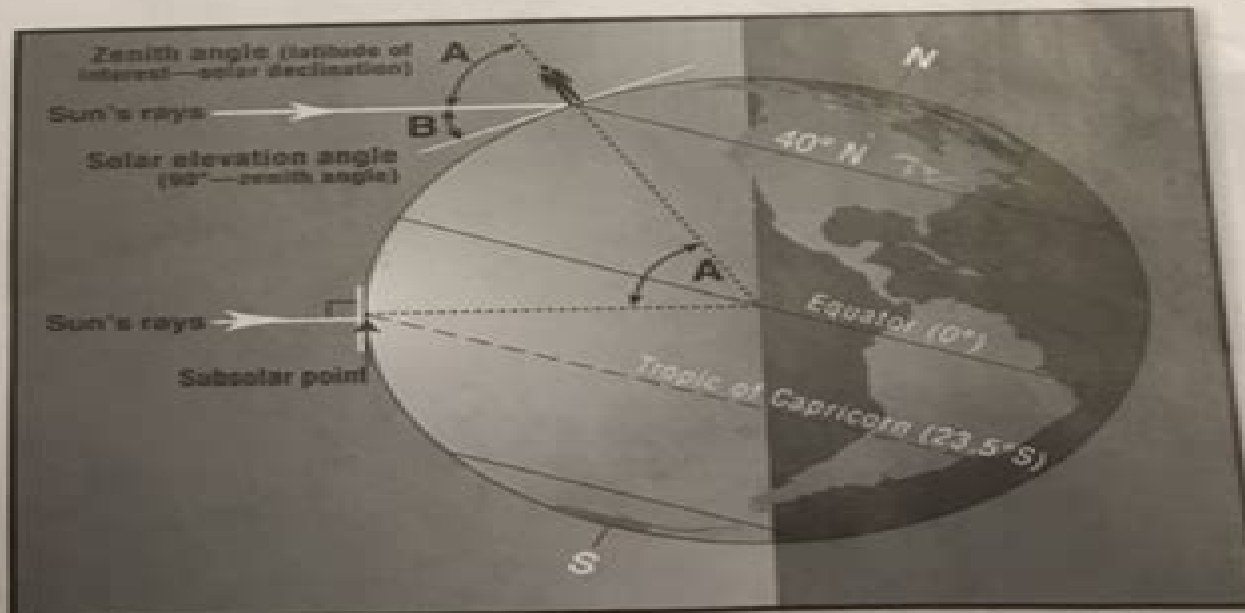


Figure 2-6. Subsolar point and zenith and solar elevation angles.

# Earth Sun Geometry Lab Answers

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