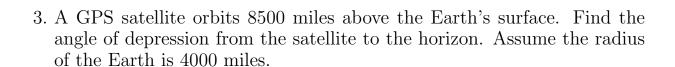
## **In-class Problems for Section 4.8** Math 1060-1

1. The sun is  $30^{\circ}$  above the horizon. Find the length of the shadow cast by a telephone pole that is 25 feet high.

2. The length of the shadow of a building is 100 feet when the angle of elevation of the sun is  $25^{\circ}$ . What is the height of the building?



4. A passenger in an airplane at an altitude of 10 kilometers sees two towns directly east of the plane. The angles of depression to the towns are 28° and 55°. How far apart are the towns?