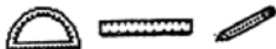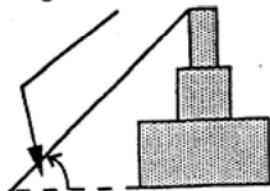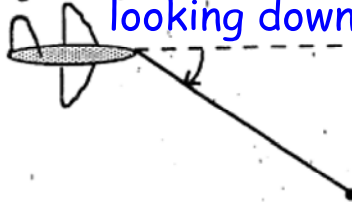## Trig Word Problems

Angle of elevation looking up

Angle of depression looking down

Make a sketch and solve each.

1. At a distance of 130 feet from the base of a building, the angle of elevation to the top is 68°. Find the height of the building.

2. What is the angle of elevation to the top of the 555 foot high Washington Monument if it is viewed from 375 feet?

3. At an altitude of 1050 feet above the ground, a glider pilot sights the landing area. What should the glide angle (angle of depression) be if the landing area is 6000 feet away?

4. The tow line of a parasailor makes an angle of 62° with the level of its tow boat. How many feet of line will keep the parasailor 850 feet above the boat?

Scrambled Answers: 10, 322, 963, 75, 56