An airplane is flying at an altitude of 6000 m over the ocean directly toward a coastline. At a certain time, the angle of depression to the coastline from the airplane is 14o. How much farther does the airplane have to fly until it is directly above the coastline?

From a horizontal distance of 80.0 m, the angle of elevation to the top of a flagpole is 18o. Calculate the height of the flagpole.

A 9.0 m ladder rests against the side of a wall. The bottom of a ladder is 1.5 m from the base of the wall. Determine the measure of the angle between the ladder and the ground.

The angle of elevation of the sun is 68o when a tree casts a shadow 14.3 m long. How tall is the tree?

A wheelchair ramp is 4.2 m long. It rises 0.7 m. What is its angle of inclination?

A person flying a kite has released 176 m of string. The string makes an angle of 27o with the ground. How high is the kite?

A person flying a kite has released 176 m of string. The string makes an angle of 27o with the ground. How far away is the kite horizontally?