

An airplane over the Pacific sights an atoll at a 20° angle of depression. If the plane is 435 m above water, how many kilometers is it from a point 435 m directly above the center of the atoll?

To find the height of a pole, a surveyor moves 70 feet away from the base of the pole and then, with a transit 2 feet tall, measures the angle of elevation to the top of the pole to be 30° . What is the height of the pole to the nearest foot?

A ladder 16 feet long makes an angle of 53° with the ground as it leans against a store. To the nearest hundredth, how far up the store does the ladder reach?