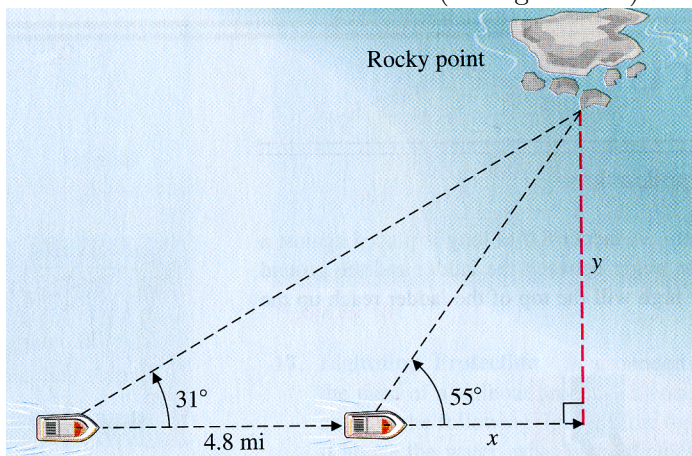


Additional Problems Assignment 3

1. A ladder is 8m long and is placed against a building. The angle between the ladder and the ground is 61° . How high will the top of the ladder reach up the building? How far is the foot of the ladder from the wall of the building?
2. A boat is cruising along the coast on a straight course. A rocky point is sighted at an angle of 31° from the course. After continuing 4.8 mi., another sighting is taken and the point is found to be 55° from the course (see fig. below). How close will the boat come to the point?



3. When the angle of elevation of the sun is 58° (the angle the the a ray of sunlight makes with the horizontal), the shadow cast by a tree is 28 ft. long. How tall is the tree.