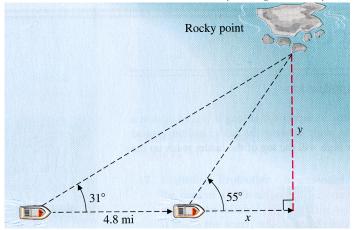
## Written Assignment 1

- 1. If the radius of an automobile wheel is 0.6 meters and rotates at 500 revolutions per minute, what is the speed of the car in km/h?
- 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?



horizontal), t	he shadow cas	st by a tree is	28 ft. long. I	How tall is the	tree?	

3. When the angle of elevation of the sun is  $58^{\circ}$  (the angle the the a ray of sunlight makes with the