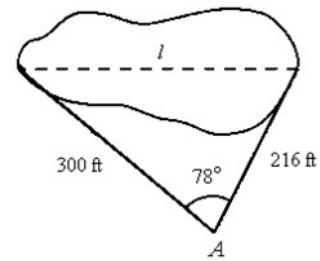


Laws of Sines & Cosines Applications

Example 1

A trigonometry class wants to determine the length of a pond near the school. From a point, A , they measure the distance to each end of the pond and the angle between these two sides. What is the approximate length of the pond?



Example 2

A boat is sailing due west parallel to the shoreline at a speed of 10 miles per hour. At a given time the bearing from the lighthouse is $S 70^\circ E$, and 15 minutes later the bearing is $S 63^\circ E$. Find the distance from the boat to the shoreline if the lighthouse is at the shoreline.

