

APP-4 Law of Sines and Cosines Applications

(complete all parts for M, complete two parts for P)

To approximate the length of a marsh, a surveyor starts at a point A, walks 250 ft to a point B, turns 60° and walks 220 ft to a point C (points C and A are in line with each other across the marsh).

a) Draw a labeled picture of the model.

b) Find the distance, AC, across the marsh. (Leave answers as simplified expressions).