Math 112 – _____   _____   NAME: _____

Quiz # 8, version A, spring 2012   20

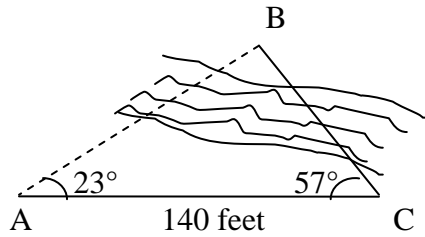Sections 9.1 & 9.2   Seat: _____

Full credit is based on work shown!   Round all **answers** to 2 decimal places.

Read each problem; don't waste time calculating things that you are not asked to find.
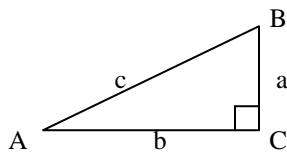
8pts

1. To find the distance from the house at A to the house across the river at B, a surveyor measures the angle BAC to be 23° and then walks off a distance of 140 feet to C and measures the angle ACB to be 57°. What is the distance from A to B?   [Note: This is NOT a right triangle.]

B

23°   57°

A   140 feet   C

7pts

2. In the right triangle shown below, side b = 7 feet and angle A = 28°. Find angle B, sides a and c.

B

c   a

A   b   C

5pts

3. In the right triangle shown below, side a = 3 and b = 8. Find angles A and B.

B

c   a

A   b   C