

Name \_\_\_\_\_

**Precalculus Unit 9: 9.1-9.2 Homework**  
**Law of Sines and Law of Cosines**

For each of the following triangles, use the given information to solve the triangle. Find both triangles when necessary. Round all answers to the hundredths place.

$$A = 24.3^\circ$$

1.  $C = 54.6^\circ$

$$c = 2.68$$

$$A = 55^\circ$$

2.  $b = 3$

$$c = 10$$

$$A = 35^\circ$$

3.  $a = 6$

$$b = 8$$

$$A = 58^\circ$$

4.  $a = 42.4$

$$b = 50$$

$$a = 4$$

5.  $b = 3$

$$c = 6$$

6. A hinged crane makes an angle of  $50^\circ$  with the ground. (see the figure). How far from the base of the crane does the top hit the ground?



