**HW: Classifying Triangles (5.6 & 5.7) Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**1. List the angles of each triangle in order from smallest to largest.**

**A. B.**

**2. Can a triangle have sides with the given lengths? Explain.**

**A.** 8 cm, 7 cm, 9 cm

**B.** 7 ft, 13 ft, 6 ft

**3. The lengths of two sides of a triangle are given. Describe the possible lengths for the third side.**

**A.** 5, 11

**B.** 12, 12

**4. Determine whether the triangle with the following side lengths is acute, obtuse, or right.**

1. $3, 9, and 3\sqrt{11}$
2. $11, 25, and 27$
3. $32, 60, and 68$

**5. Find the range of possible values that x can be.**



**A. B.**