**Honors Geometry Name**

**WS: Law of Sines & Cosines Date Block**

**Law of Sines: Law of Cosines:**

**When to use Law of Sines & Law of Cosines:**

**SSS:**

**SAS:**

**ASA:**

**AAS:**

**SSA?:**

**Use the Law of Sines or Cosines to solve the following triangles.** Round to the nearest tenth.



1. 2.
2. *m*∠*C* = 71°, c = 7.4, *m*∠*B* = 41° 4. b = 16, a = 21, *m*∠*A* = 88°

5. a = 5, b = 6, c = 7 6. *m*∠*B* = 46°, c = 16, *m*∠*A* = 55°

Solve the following. Round to the nearest tenth.

1. An isosceles triangle has a base of 22 centimeters and a vertex angle of 36°. Find the perimeter.
2. The sides of a triangle are 50 meters, 70 meters, and 85 meters. Find the measure of the largest angle.
3. The longest side of a triangle is 34 feet. The measures of two angles of the triangle are 40° and 65°. Find the lengths of the other two sides.
4. Use the diagram to find the straight distance between the zoo and movie theater.

