Name _____ Period _____

PCH CH 4 Review Ms. Montgomery

Use the Law of Sines or the Law of Cosines to solve the following.
Round your answers to the nearest tenth.

1. Solve the triangle where a = 14, $m\angle A = 25^\circ$, $m\angle B = 75^\circ$.

2. Solve the triangle where c = 15, b = 30 and $m\angle A = 140^\circ$.

3. Solve the triangle where a = 4, b = 3, $m\angle A = 40^\circ$.

4. Solve the triangle where a = 6, b = 7 and $m\angle C = 20^\circ$.

5. Two angles of a triangle measure 32º and 53º. The longest side is 55 cm. Find the length of the shortest side.

Name _____ Period _____

6. A triangular-shaped lot of land has sides of length 120 m, 50 m and 150 m. What are the measures of the angles?

7. A parallelogram has sides of 6 cm and 8 cm and a 65º angle. Find the lengths of the diagonals.

8. How long is the base of an isosceles triangle if each leg is 27 cm and each base angle measures 23º?

9. A loading ramp 5 m long makes a 25º angle with the level ground. The ramp is replaced by another ramp 15 m long. Find the angle that the new ramp makes with the ground.

10. A baseball diamond is a square 90 feet on a side. The pitcher's mound is 60.5 feet from home plate. How far is it from the mound to first base?