H GEOM HW 1.6 NAME:_____

For all the following problems, **you must write an equation** and then solve. No guessing allowed.

1. The perimeter of a rectangular pool is 130 ft. The width is 4 times the length. Find the dimensions of the pool.

2. In a triangle, one angle is 40 more than the smallest angle and the third angle is half the sum of the other two angles. Find the measure of each angle.

3. The length of a rectangle is 5 cm less than 3 times its width. If the perimeter of the rectangle is 54 cm, find the length and width.

4. The width of a garden is 4 cm more than 3 times its length. The perimeter of the garden is 55 cm. What are the dimensions of the garden?

5. In a triangle, one angle is twice the smallest angle and the third angle is 40 more than the smallest angle. Find all three angles.

6. One side of a triangle is 7 inches shorter than the longest side. The third side is 3 inches shorter than the longest side. The perimeter is 26 inches. Find the lengths of all three sides.