Chapter 9 Quiz Prep

1. Use the Pythagorean Theorem to find the length of an unknown side in a right triangle
2. Find the area of an isosceles triangle given only the side lengths of the triangle
    a. REVIEW: In an isosceles triangle, the altitude bisects the vertex angle AND bisects the opposite side
3. Given 3 side lengths, verify that the lengths form a triangle. If so, classify it as acute, right, or obtuse.
4. Use Special Right Triangle rules to solve for lengths of unknown sides
    a. 45-45-90 triangles
    b. 30-60-90 triangles
5. Find the geometric mean of two numbers
6. Given a right triangle with the altitude to the hypotenuse, write a similarity statement that relates all three similar right triangles.
7. Use the Geometric Mean (Altitude) Theorem and the Geometric Mean (Leg) Theorem to solve for unknown side lengths.
8. Use the Tangent Ratio to find lengths of sides in right triangles.

EXTRA CREDIT: Use the Sine and Cosine ratios to find lengths of sides in right triangles.