Chapter 5 Test Prep

MULTIPLE CHOICE

- 1. Classify triangles by their... (6 points)
 - a. Sides (scalene, equilateral, isosceles)
 - b. Angles (right, acute, obtuse, equiangular)
- 2. Use the Exterior Angles Theorem and/or the Triangle Sum Theorem to solve for unknown variables and missing angle measures (2 points)
- 3. Use the Third Angles Theorem to solve for unknown variables and missing angle measures (2 points)
- 4. Write congruence statements. (2 points)
- 5. When given a congruence statement, determine which corresponding segments and/or angles are congruent, and use them to solve for unknowns. (4 points)
- 6. Place figures in the coordinate plane for writing a coordinate proof (2 points)
- Know strategies for writing coordinate proofs (i.e. if you're proving triangles congruent by SSS≅, then use the distance formula/Pythagorean Theorem, etc.) (2 points)

SHORT ANSWER

- Given two corresponding and congruent pieces of information in two triangles, determine the third pieces of information needed to prove two triangles ≅ by SSS≅, SAS≅, HL≅, ASA≅, and/or AAS≅. (12 points)
- 9. Given a diagram, determine if you have/can find enough information to prove two triangles congruent. If so, state the theorem used (SSS≅, SAS≅, HL≅, ASA≅, or AAS≅) (20 points)
- 10. Write two-column proofs (30 points)
 - a. Prove two triangles congruent by SSS≅, SAS≅, HL≅, ASA≅, and/or AAS≅
 - b. Use CPCTC to say why corresponding parts of congruent triangles are congruent.