MATH 302
Review for Test #3
Sections 6.1-6.5, 7.1-7.4, 8.1-8.3, 10.1, 11.1

1. Be able to apply the properties of proportions in problems and proofs (Section 6.1)

2. Be able to use the AA, SAS, and SSS Similarity Postulate and Theorems to determine if two triangles are similar (Sections 6.2 & 6.3)

3. Be able to apply the theorems related to similar triangles to find the measures of missing sides of triangles (Sections 6.2 & 6.3)

4. Be able to prove the Pythagorean Theorem (Class notes from Section 6.3)

5. Be able to complete a proof involving similar triangles (Sections 6.2 & 6.3)

6. Be able to use trigonometric ratios to find missing sides of a right triangle (Sections 6.4 & 6.5)

7. Be able to apply the theorems related to circles to find the measures of missing angles, arcs, chords, tangents, and secants (Sections 7.1-7.4)

8. Be able to complete a proof involving circles (Sections 7.1-7.4, 8.2-8.3)

9. Be able to apply the Triangle Inequality Postulate to determine if given measurements could be the lengths of sides of a triangle (Section 8.2)

10. Be able to compare the length of sides and angles in a triangle (Section 8.2)

11. Be able to determine if a triangle is a right triangle, obtuse triangle, or acute triangle (Class notes from Section 8.2)

12. Be able to prove that an exterior angle of a triangle is greater than either nonadjacent interior angle (Section 8.1)

13. Be able to circumscribe a circle about and inscribe a circle in a regular polygon (Section 10.1)

14. Be able to use construction techniques to locate the center of a circle (Section 7.2)

15. Be able to write the converse, inverse, contrapositive, and biconditional for a given conditional statement and determine the truth value of each (Section 11.1)