**Advanced Geometry 2nd Semester Final Exam Topics**

* Dilations
* Similar figures
* Similar triangles
* Altitude-on-hypotenuse theorems
* Pythagorean Theorem
* Special Right Triangles (45-45-90 and 30-60-90)
* Trig Ratios
* Angles of Elevation and Depression
* Area of polygons
* Area of regular polygons
* Ratios of areas and perimeters

**Review Homework:**

Assignment #1 (due \_\_\_\_\_\_\_\_\_\_)

* p. 598 #4, 5 - 8, 11, 14, 16, 23, 25 - 30

Assignment #2 (due \_\_\_\_\_\_\_\_\_\_)

* p. 434 #5
* p. 706 #1, 4, 11, 12, 15, 25, 30, 34
* Volume
* Cross Sections
* Rotate 2D to 3D
* Parallel and Perpendicular Lines
* Equations of Lines
* Distance Formula
* Midpoint Formula
* Coordinate Proofs
* Area of circles
* Circumference of circles
* Arc length
* Area of sectors
* Area of segments
* Equation of a circle
* Angles and Arcs in a circle
* Secants and Tangents
* The Power Theorems

**STUDY** those ***index cards!!!***

The final will consist of the following types of problems:

* Multiple Choice
* Constructed Response