**Geometry Topics to Review in Preparation for Placement Test**

Definitions:

 Pythagorean Theorem and the Converse of the Pythagorean Theorem

 Parts of a Circle

 Vertical Angles

Angles & Lines:

 Estimating the measure of an angle

 Parallel/perpendicular lines & the angle measures around them

 Constructing perpendiculars

Polygons:

 Isosceles/equilateral triangles and their properties

 Triangle Inequality

 Convex/nonconvex

 Types of quadrilaterals

 Sums of interior angle measures in polygons

Triangle Congruence:

 Paragraph & Two-column proofs

 Triangle congruence theorems

 Triangle congruence proofs

 Properties of regular polygons and parallelograms

Measurement:

 Perimeter/circumference

 Areas of triangles, quadrilaterals, circles and sectors

 Pythagorean Theorem

Surface area & Volume

 Prisms, cylinders, spheres

 Nets

Coordinate Geometry

 Distance between 2 points

 Midpoint formula

 Slope of parallel and perpendicular lines

 Equations for circles

Similarity

 Ratios & Proportions

 Similar Figures

 Fundamental Theorem of Similarity

Trigonometry

 Right triangle trigonometry

 Law of Sines

 Special Triangles