**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