**Geometry AIR Test Prep. Vocabulary**

**1. Reasoning, Lines, and Transformations**

Point

Line (line segment, segment)

Ray

Plane (coplanar)

Angle (angle measure)

Segment Addition

Angle Addition

Types of Angles

Adjacent

Straight

Vertical

Linear Pair

Supplementary

Complementary

Exterior (alternate exterior)

Interior (alternate interior)

Corresponding

Consecutive Interior (Same Side)

Intersection

Parallel (parallel lines)

Skew Lines

Perpendicular (perpendicular lines)

Bisect (bisector)

Coordinate Plane

Axis (x-axis, y-axis)

Origin

Quadrant

Point

Coordinate (x-coordinate, y-coordinate)

Distance

Midpoint

Slope

Proof (prove)

Given

Statement

Reason

Property of Equality

Distributive Property

Substitution

Reflexive Property

Transitive Property

Transformation

Translate

Reflect

Rotate

Dilate

Scale Factor (factor of)

Image (pre-image)

Congruent

Similar

Symmetry (rotational, line)

**2. Triangles, Similarity, Congruency, and Trigonometry**

Triangle (acute, right, obtuse, scalene, isosceles, equilateral)

Base Angles

Opposite

Hypotenuse

Leg

Ratio (proportion)

Corresponding Parts

Similarity (SSS, SAS, AA(A))

Included Angle (included side)

Congruency (SSS, SAS, ASA, AAS, HL)

Trigonometry

Trigonometric Ratios (sine, cosine, tangent)

Adjacent (opposite, hypotenuse)

Inverse Ratio

**3. Probability**

Probability

Event

Independent Event

Dependent Event

Conditional Probability

Frequency (two-way frequency table)

Complement

**4. Polygons, Circles, and 3D Figures**

Vertex (vertices)

Edge (side)

Quadrilateral

Parallelogram

Rectangle

Rhombus

Square

Trapezoid (isosceles trapezoid)

Kite

n-gon

Regular Polygon

Angles (exterior, interior, central)

Perimeter

Circle

Semicircle

Center

Diameter

Radius

Chord

Tangent

Secant

Arc (major arc, minor arc)

Circumference (arc length)

Degrees (arc measure)

Central Angle

Inscribed Angle

Circumscribed Angle

Intercepted Arc

Sector

Dimension (length, width, height, slant height, altitude, base, radius)

2D

Face

Area (area of the base, B)

Perimeter

3D

Cross Section

Surface Area

Volume

Cylinder

Cone

Sphere

Prism (rectangular prism, cube)

Pyramid

Similar Figures