Equipment Room Unit 4: Geometry

Glossary

Unit 4: Geometry

Alternate Exterior Angles Exterior angles formed by a transversal that are on opposite sides of the transversal.

Alternate Interior Angles Interior angles formed by a transversal that are on opposite sides of the transversal and inside the parallel lines.

Complementary Angles A pair of angles that sum to 90°.

Congruent Objects are congruent if they have the same size and shape.

Converse A statement formed by switching the premise and conclusion of another statement.

Corresponding Angles Angles on the same side of a transversal and on the same side of the lines the transversal crosses.

Cosine Law If in a triangle a, b, and c are the side lengths and A is the angle across from side a, then the cosine law states $a^2 = b^2 + c^2 - 2bc \cos A$.

Cosine Ratio The ratio of the adjacent side length to the hypotenuse length in a right triangle.

Exterior Angles Formed by a Transversal Angles formed between a transversal and the lines it crosses, on the outsides of the lines crossed.

Exterior Angle of a Polygon An angle formed by one side of a polygon and an extension of an adjacent side. An external angle is on the "outside" of a polygon.

Interior Angles Formed by a Transversal Angles formed between a transversal and the lines it crosses, on the insides of the lines crossed.

Interior Angle of a Polygon An angle formed by two sides of a polygon that share a vertex. An interior angle is on the "inside" of a polygon.

Inverse Cosine Denoted \cos^{-1} and can be used to determine an unknown angle from a cosine ratio.

Inverse Sine Denoted \sin^{-1} and can be used to determine an unknown angle from a sine ratio.

Inverse Tangent Denoted tan^{-1} and can be used to determine an unknown angle from a tangent ratio.

Opposite Angles Angles opposite each other that are formed when two lines cross.

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Parallel Lines Lines that do not intersect. Parallel lines are the same distance apart for their entire length.

Parallelogram A quadrilateral with two pairs of parallel sides.

Perpendicular Lines Lines that meet at a right angle.

Polygon An enclosed two dimensional shape made of connected line segments.

Pythagorean Theorem $a^2 + b^2 = c^2$, where a and b are legs and c is the hypotenuse of a right triangle.

Sine Law If in a triangle a, b, and c are the side lengths across from angles A, B, and C, respectively, the sine law states that $\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$.

Sine Ratio The ratio of the opposite side length to the hypotenuse length in a right triangle.

Supplementary Angles A pair of angles that sum to 180°.

Tangent Ratio The ratio of the opposite side length to the adjacent side length in a right triangle.

Transversal A line that intersects a set of other lines.

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