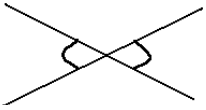
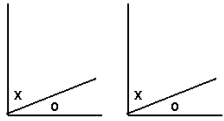


GEOMETRY THEOREMS...

• ANGLE THEOREMS:

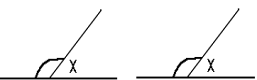


(OAT) **Opposite Angle Theorem** → If two lines intersect then the opposite angles are equal.



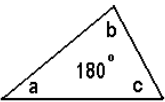
(CAT) **Complementary Angle Theorem** → If two angles are equal, then their complements are equal.

Note: Complementary angles sum to 90° .



(SAT) **Supplementary Angle Theorem** → If two angles are equal, then their supplements are equal.

Note: Supplementary angles sum to 180° .



(SATT) **Sum of the Angles of a Triangle Theorem** → The sum of the interior angles of a triangle is 180° .

Note: When two angles of one triangle are respectively equal to two angles of another triangle, the third angles are equal.



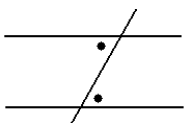
(ITT) **Isosceles Triangle Theorem** → The angles opposite the equal sides are equal.

Note: Isosceles triangles have 2 equal sides.



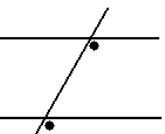
(EAT) **Exterior Angle Theorem** → An exterior angle of a triangle is equal to the sum of the interior and non-adjacent angles.

• TRANSVERSAL PARALLEL THEOREMS:



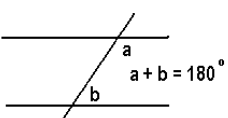
(AIA) **Alternate Interior Angles** → When a transversal intersects a set of parallel lines, the alternate interior angles are equal.

Note: "Z" pattern



(CA) **Corresponding Angles** → When a transversal intersects a set of parallel lines, the corresponding angles are equal.

Note: "F" pattern



(CIA) **Co-Interior Angles** → When a transversal intersects a set of parallel lines, the co-interior angles sum to 180° .

Note: "C" pattern