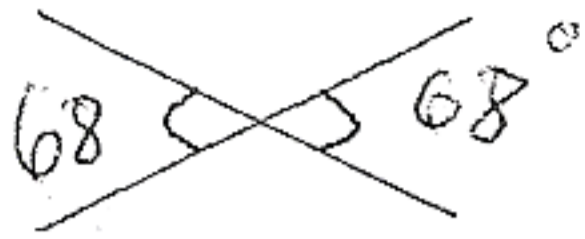
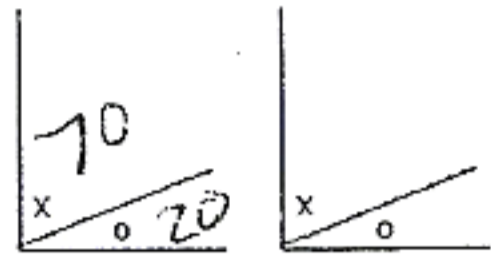


GEOMETRY THEOREMS...

• ANGLE THEOREMS:

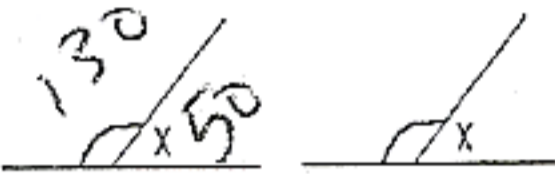


(OAT) Opposite Angle Theorem → If two lines intersect then the opposite angles are equal.



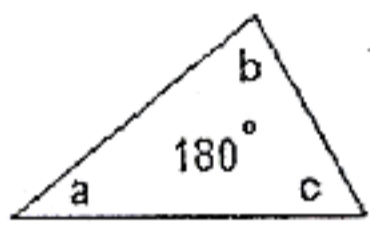
(CAT) Complementary Angle Theorem → If two angles are equal, then their complements are equal.

Note: Complementary angles sum to 90° .



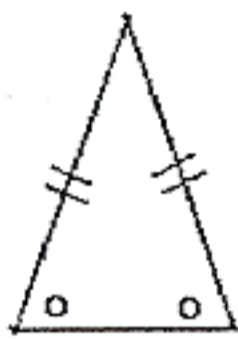
(SAT) Supplementary Angle Theorem → If two angles are equal, then their supplements are equal.

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.



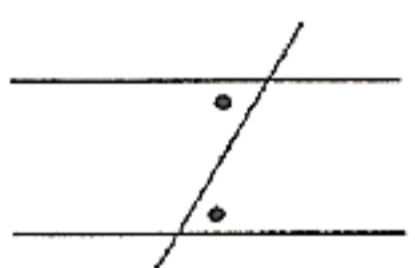
(ITT) Isosceles Triangle Theorem → The angles opposite the equal sides are equal.

Note: Isosceles triangles have 2 equal sides.



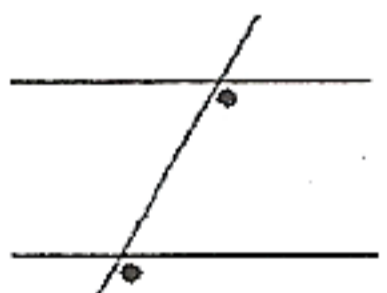
(EAT) Exterior Angle Theorem → An exterior angle of a triangle is equal to the sum of the interior and non-adjacent angles.

• TRANSVERSAL PARALLEL THEOREMS:



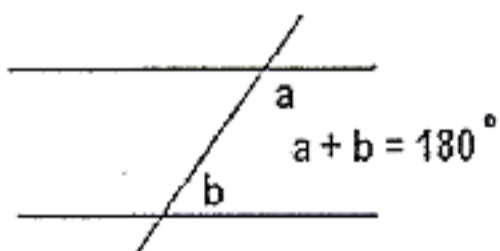
(AIA) Alternate Interior Angles → When a transversal intersects a set of parallel lines, the alternate interior angles are equal.

Note: "Z" pattern



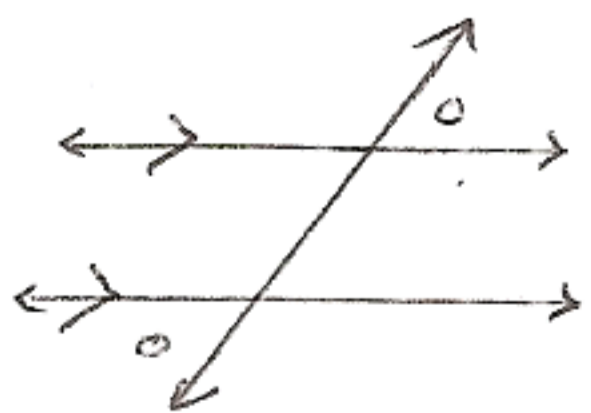
(CA) Corresponding Angles → When a transversal intersects a set of parallel lines, the corresponding angles are equal.

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



(AEA) Alternate Exterior Angles - When a transversal intersects a set of parallel lines, the alternate exterior angles are equal.