

Key Terms...

Acute angle - measure is between 0° and 90°



Right angle - measure is 90° ; the two rays are perpendicular to each other



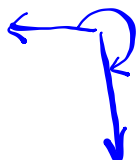
Obtuse angle - measure is between 90° and 180°



Straight angle - measure is 180°



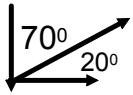
Reflex angle - measure is between 180° and 360°



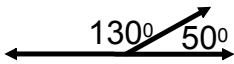
Angle Theorems



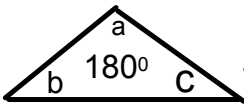
(OAT) Opposite Angle Theorem - If two lines intersect then the opposite angles are equal



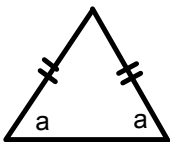
(CAT) Complementary Angle Theorem - Two angles add up to 90°



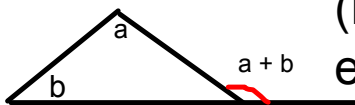
(SAT) Supplementary Angle Theorem - Two angles add up to 180°



(SATT) Sums of the Angles in a Triangle Theorem - The angles in a triangle add up to 180°

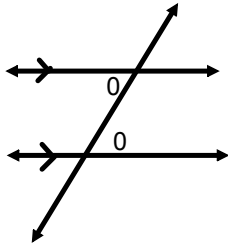


(ITT) Isosceles Triangle Theorem - The angles opposite the equal sides are equal



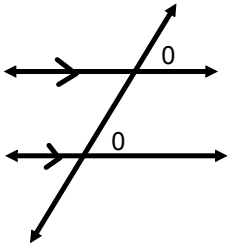
(EAT) Exterior Angle Theorem - An exterior angle of a triangle is equal to the sum of the interior and non-adjacent angles.

Traversal Parallel Theorems



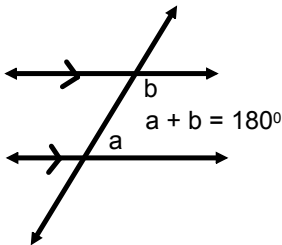
(AIA) **Alternate Interior Angles** - When a transversal intersects a set of parallel lines, the alternate interior angles are equal.

Note: Z pattern.



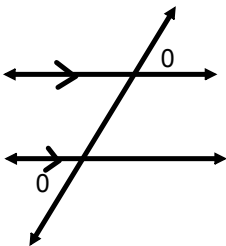
(CA) **Corresponding Angles** - When a transversal intersects a set of parallel lines, the corresponding angles are equal.

Note: F pattern.



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

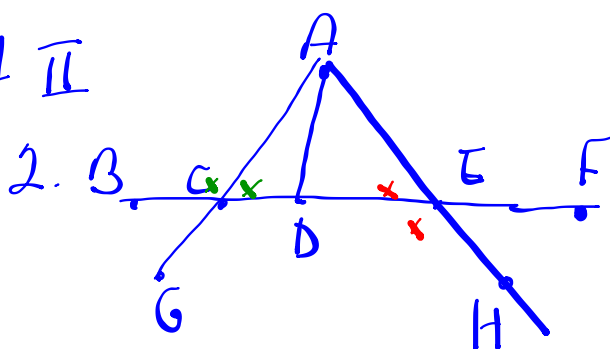
Note: C pattern



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

Labelling Angles

Part II



a) $\angle AED$
 \neq
 $\angle DEH$
 $\angle ACB + \angle ACD$

- Use three letters
- \angle is the middle letter