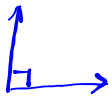
Key Terms...

Acute angle - measure is between 0º 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°

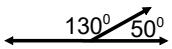
Reflex angle - measure is between 180° and 360°

Apr 13-8:06 AM

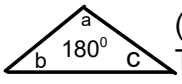
Angle Theorems

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

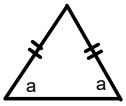
(CAT) **Complementary Angle Theorem** - Two angles add up to 90^0



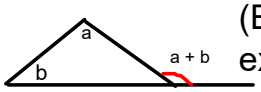
(SAT) Supplementary **Angle Theorem** - Two angles add up to 180^0



(SATT) **Sums of the Angles in a Triangle Theorem** - The angles in a triangle add up to 180^0



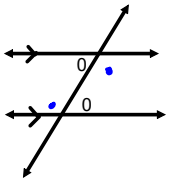
(ITT) **Isosceles Triangle Theorem** - The angles opposite the equal sides are equal



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

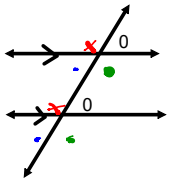
Apr 13-8:21 AM

Traversal Parallel Theorems



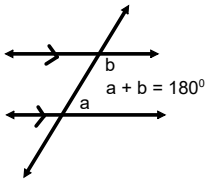
(AIA) **Alternate Interior Angles** - When a transversal intersects a set of parallel lines, the alternate interior angles are equal.

Note: Z pattern.



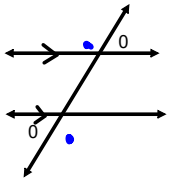
(CA) **Corresponding Angles** - When a transversal intersects a set of parallel lines, the corresponding angles are equal.

Note: F pattern.



(CIA) **Co-interior Angles** - When a transversal intersects a set of parallel lines, the co-interior angles sum to 180^0.

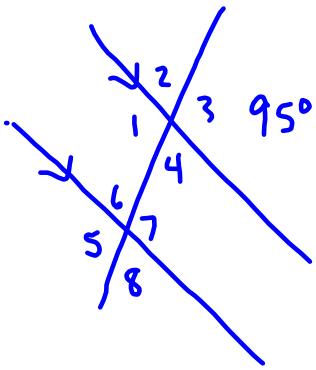
Note: C pattern



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

Apr 13-8:50 AM

1. $\angle 1 = 95^\circ$ OAT
2. $\angle 2 = 180 - 95$ SAT
   $= 85^\circ$
3. $\angle 4 = 85^\circ$ OAT
4. $\angle 5 = 95^\circ$ CA
5. $\angle 6 = 85^\circ$ CA
6. $\angle 7 = 95^\circ$ CA
7. $\angle 8 = 85^\circ$ CA

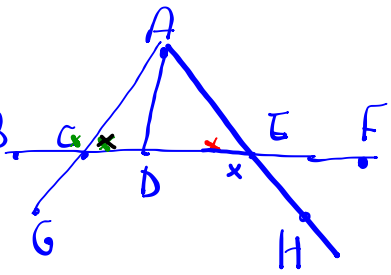


Oct 21-9:14 AM

Labelling Angles

Part II

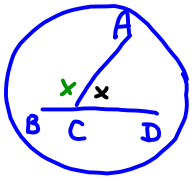
2. B



a) ∠AED ×
&
∠DEH ×

∠ACB + ∠ACD
= 180° SAT

- Use three letters
- ∠ is the middle letter



∠ACB
+ ∠ACD = 180° SAT

Apr 13-9:28 AM