Warm-up

Make sure you have something to write with and a post it from Ms. Taylor

Warm-up

Without talking or looking at notes.

What is the rule for the following

- 1. Reflect over y = x (y, χ)
 2. Rotate counter clockwise 30 degrees (-y, χ)
- 3. Rotate 180 degrees clockwise (- x,-y)
- 4. A point shifted down 3 and right 5. $(\chi + 5, y 3)$

Triangle Congruency Notes

Vocab:

Included Side: A side of a tringle between two angles.

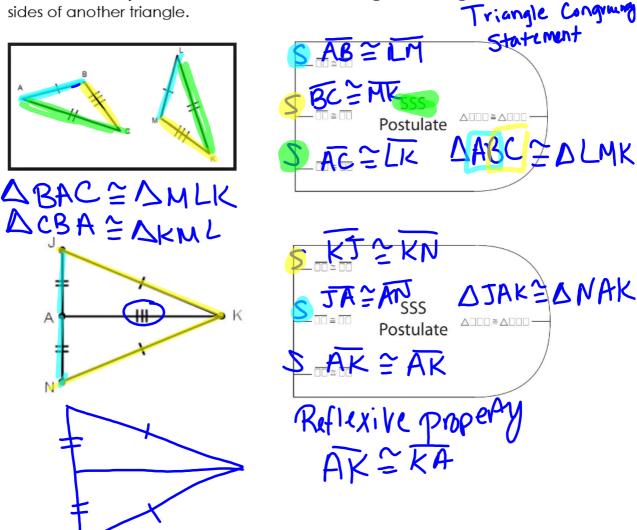
Included Angle: An angle between two sides of the triangle.

Hypotenuse: the side across from the right angle.

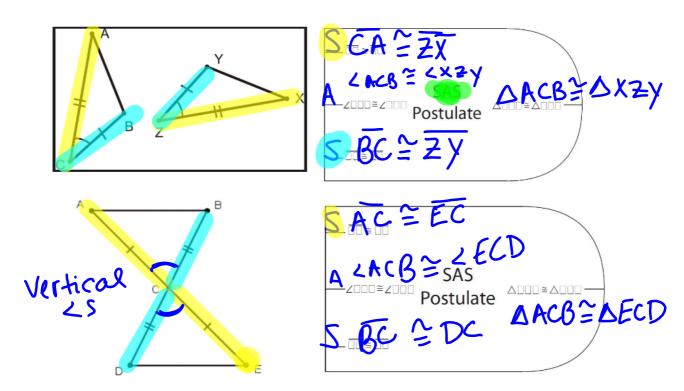
Leg: the side of a right triangle that connects to the right angle.

Postulates and Theorems:

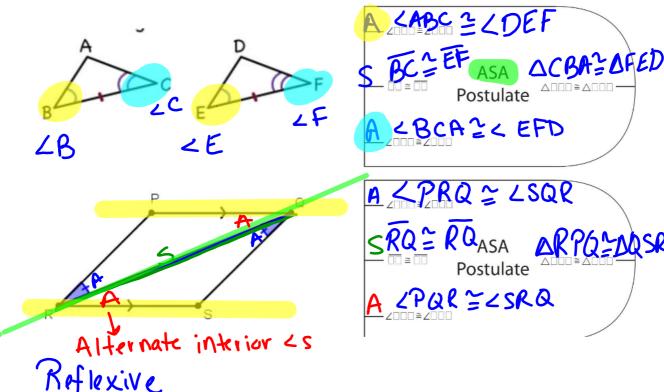
Side- Side postulate: three sides of one triangle are congruent to three sides of another triangle.



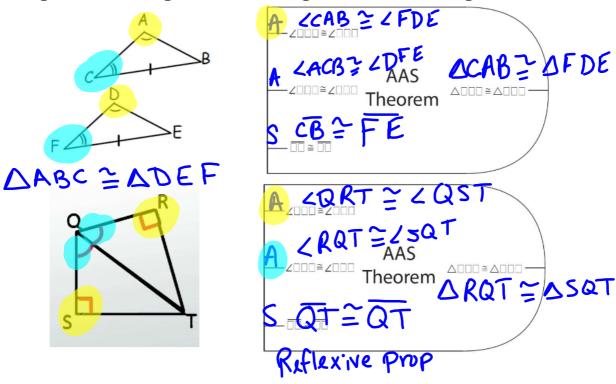
Side- Angle- Side: two sides and the <u>included angle of</u> one triangle are congruent to two sides and the included angle of another triangle.



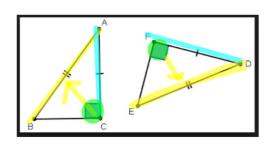
Angle-Side-Angle: two angles and the included side of one triangle are congruent to two angles and the included side of another triangle.

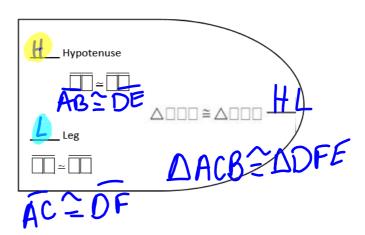


Angle-Angle-Side: two angles and a following side of one triangle are congruent to two angles and a following side of another triangle.



Hypotenuse-Leg: the hypotenuse and a leg of one triangle are congruent to the hypotenuse and a leg of another triangle.

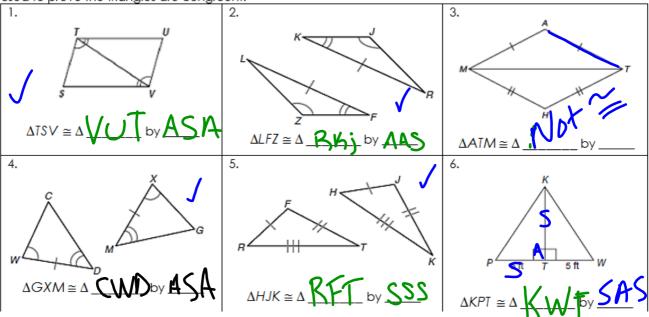


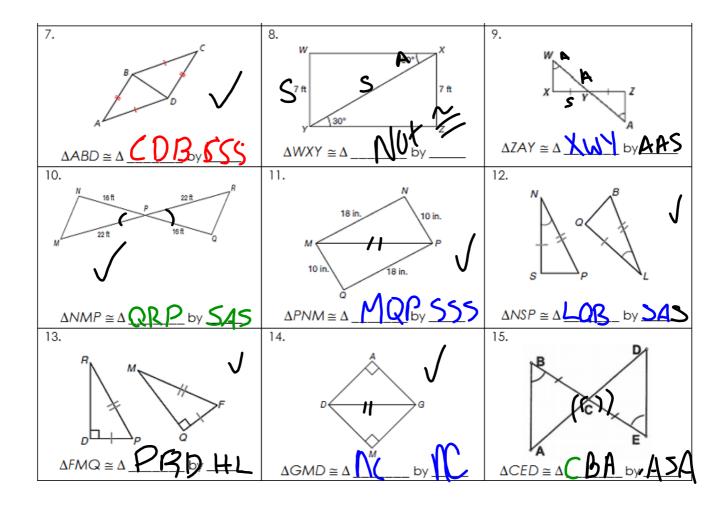


Independent practice for 30 minutes.

Be ready to answer questions on board.

Determine if the following triangles are congruent. Create a congruence statement and name the theorem used to prove the triangles are congruent.





Quick Check