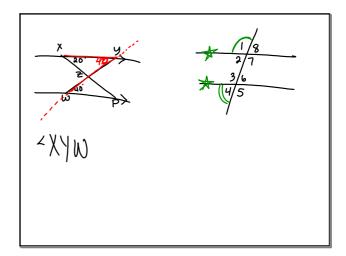
Congruent Triangles (part 2)



title Oct 29-8:28 AM

Tell whether the angles or sides are corresponding angles, corresponding sides, or neither. $\angle C \cong \angle D \quad \bigcap_D G$ $\overline{GD} \cong \overline{CT} \quad \bigvee_D G$ $\angle O \cong \angle A \quad \bigvee_D G$

Proving Triangles are Congruent

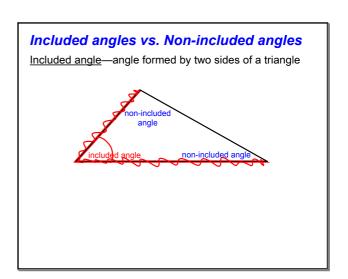
We learned that if all three pairs of corresponding sides and all three pairs of corresponding angles are congruent, then the two triangles are congruent.



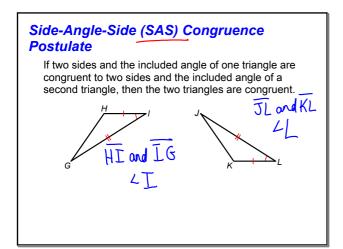
But.....do we need all *six* pairs of corresponding parts to be congruent to prove two triangles are congruent????

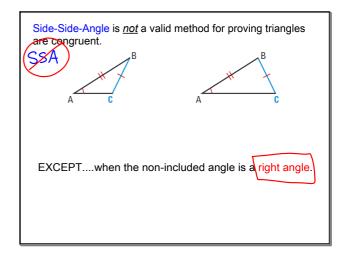
Could we prove two triangles are congruent if we only had three pairs of congruent corresponding sides?

Side-Side (SSS) Congruence Postulate If three sides of one triangle are congruent to three sides of a second triangle, then the two triangles are congruent.

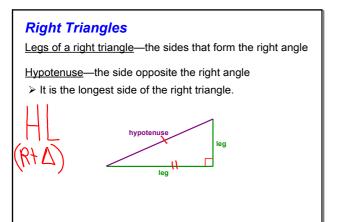


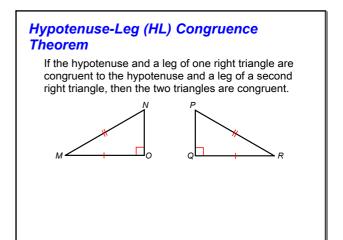
SSS included angles



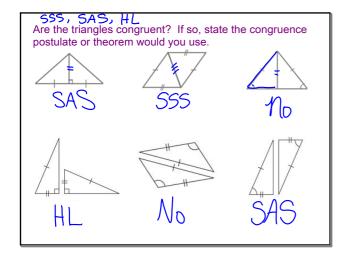


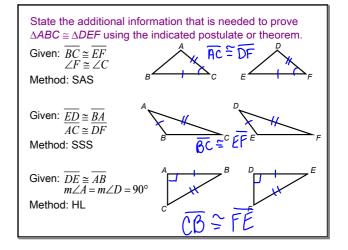
SAS No SSA





right triangles HL





examples examples

Conclusion

- 1. What ways can you prove triangles congruent?
- 2. Which method cannot prove two triangles are congruent?
- 3. What is the difference between an included angle and non-included angle?
- 4. Questions???



Oct 21-1:28 PM Oct 21-1:31 PM