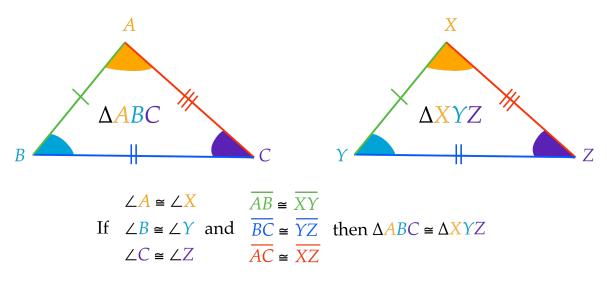
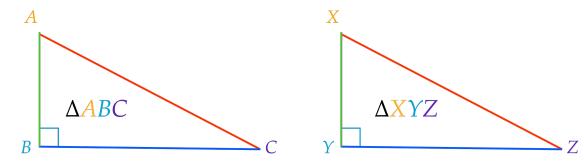
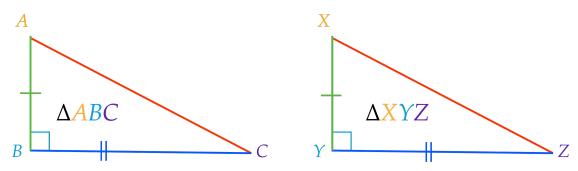
Two triangles are congruent if and only if their corresponding angles and sides are congruent.



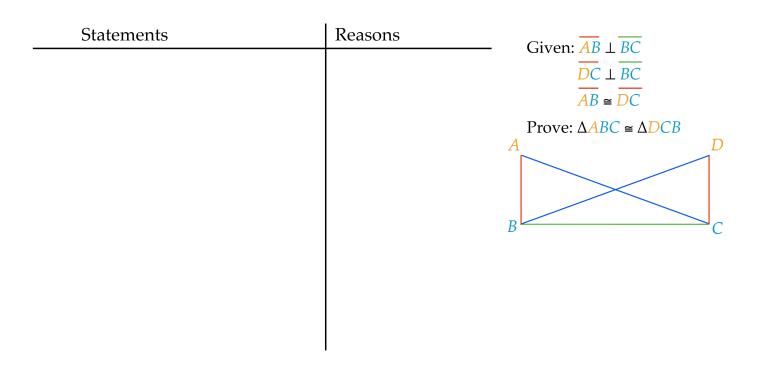
The hypotenuse of a right triangle is the side opposite the right angle. The other two sides of a right triangle are called legs.



If the legs of one right triangle are congruent to the legs of another right triangle, then the triangles are congruent.



If 
$$\overline{AB} \cong \overline{XY}$$
, and  $\overline{BC} \cong \overline{YZ}$ , then  $\Delta ABC \cong \Delta XYZ$   
Only with Right Triangles - Leg - Leg



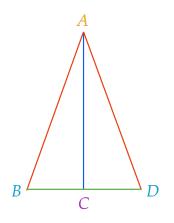
Chahamanha
Statements

## Reasons

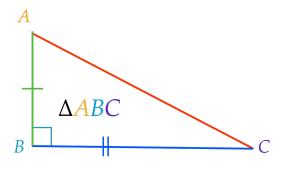
Given: C is midpoint of  $\overline{BD}$ 

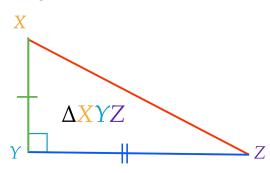
$$\overline{AC} \perp \overline{BD}$$

Prove:  $\overline{AB} \cong \overline{AD}$ 



If the legs of one right triangle are congruent to the legs of another right triangle, then the triangles are congruent.





If 
$$\overline{AB} \cong \overline{XY}$$
, and  $\overline{BC} \cong \overline{YZ}$ , then  $\Delta ABC \cong \Delta XYZ$ 

Only with Right Triangles - Leg - Leg (LL)