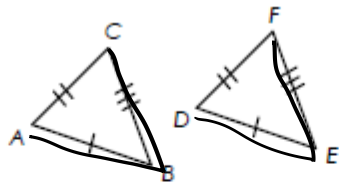
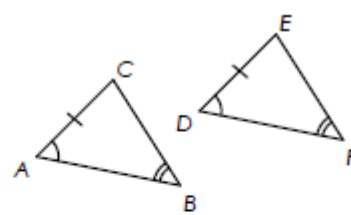


If three sides of one triangle are congruent to three sides of another triangle, then the triangles are congruent.



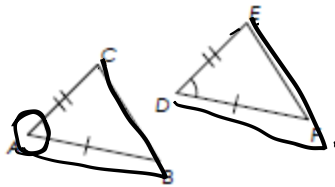
$$\overline{AB} \cong \overline{DE}, \overline{AC} \cong \overline{DF} \\ \overline{CB} \cong \overline{FE} \text{ then} \\ \triangle ABC \cong \triangle DEF$$



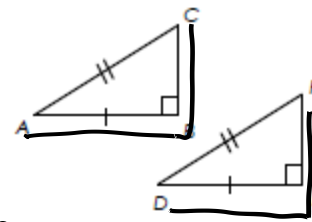
$$\overline{AC} \cong \overline{DF}, \angle A \cong \angle D \\ \angle B \cong \angle F \text{ then} \\ \triangle ABC \cong \triangle DEF$$

If two Angles and the non-included side of one triangle are congruent to two Angles and the corresponding non-included side of another triangle, then the triangles are congruent.

If two Sides and the included angle of one triangle are congruent to two Sides and the included angle of another triangle, then the triangles are congruent.



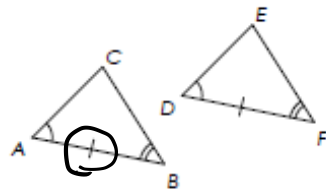
$$\overline{AB} \cong \overline{DE}, \angle A \cong \angle D \\ \overline{AC} \cong \overline{DF} \text{ then} \\ \triangle ABC \cong \triangle DEF$$



If $\triangle ABC$ & $\triangle DEF$ are \perp triangles
 $\overline{AC} \cong \overline{DF}, \overline{AB} \cong \overline{DE}$
 then $\triangle ABC \cong \triangle DEF$

If the hypotenuse and a leg of a right triangle are congruent to the hypotenuse and a leg of a second right triangle, then the two triangles are congruent.

If two Angles and the included side of one triangle are congruent to two Angles and the included side of another triangle, then the triangles are congruent.



$$\angle A \cong \angle D, \overline{AB} \cong \overline{DF} \\ \angle B \cong \angle F \text{ then} \\ \triangle ABC \cong \triangle DEF$$



Angle-Angle-Angle
 Side-Side-Angle
 do not work to
 prove \triangle s are \cong