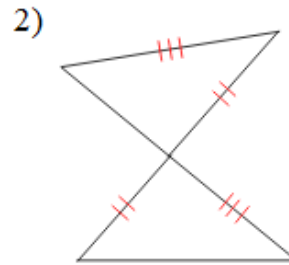
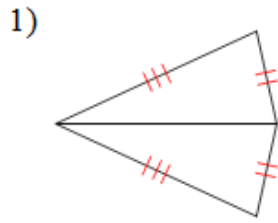


Name _____

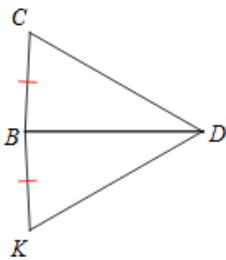
Date _____

Determine if the two triangles are congruent. If they are, state how you know.

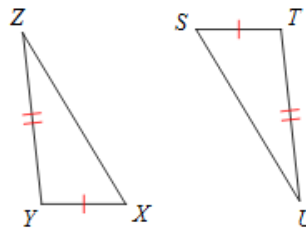


State what additional information is required in order to know that the triangles are congruent for the reason given.

3) SSS

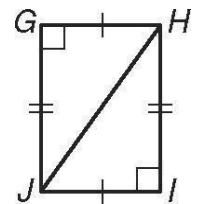


4) SSS



5. If three sides of one triangle are congruent to three sides of another triangle, then the triangles are congruent. This is known as what? _____

$GHIJ$ is a rectangle. A rectangle is a four-sided figure with four right angles and congruent opposite sides. Fill in the blanks to show that $\triangle GHJ \cong \triangle IJH$.



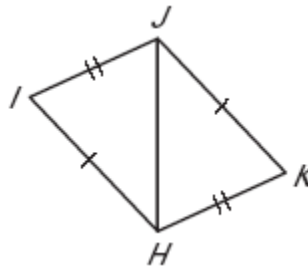
6. It is given that $\overline{GH} \cong$ _____ and $\overline{GJ} \cong$ _____.

By the Reflexive Property of congruency $\overline{JH} \cong$ _____. So $\triangle GHJ \cong \triangle IJH$ by _____.

7. **Proof** Complete the proof.

GIVEN: $\overline{HI} \cong \overline{JK}$,
 $\overline{IJ} \cong \overline{KH}$

PROVE: $\triangle HIJ \cong \triangle JKH$

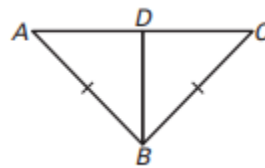


Statements	Reason
1. _____	1. Given
2. _____	2. Given
3. _____	3. Reflexive property of Congruence
4. _____	4. SSS Congruence Postulate

8. **Proof** Complete the proof.

GIVEN: $\overline{AB} \cong \overline{CB}$, D is the midpoint of \overline{AC} .

PROVE: $\triangle ABD \cong \triangle CBD$

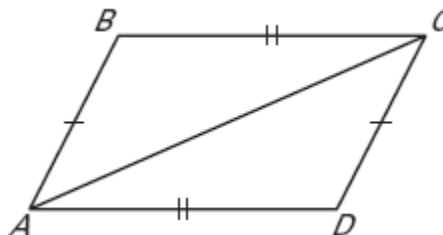


Statements	Reason
1. $\overline{AB} \cong \overline{CB}$	1. _____
2. D is the midpoint of \overline{AC}	2. _____
3. $\overline{AD} \cong \overline{CD}$	3. Definition of _____
4. $\overline{BD} \cong \overline{BD}$	4. _____
5. $\triangle ABD \cong \triangle CBD$	5. _____

9. **Proof** Complete the proof.
(make your own statements & reasons chart)

GIVEN: $\overline{AB} \cong \overline{CD}$, $\overline{BC} \cong \overline{AD}$

PROVE: $\triangle ABC \cong \triangle CDA$



10. **Proof** Complete the proof.
(make your own statements & reasons chart)

GIVEN: $\overline{WX} \cong \overline{YX}$,

Z is the midpoint of \overline{WY}

PROVE: $\triangle WXZ \cong \triangle YXZ$

