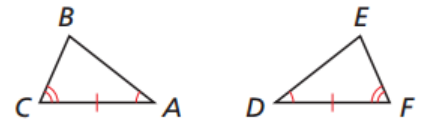


Geometry 5.6 Notes: Angle-Side-Angle Triangle Congruence

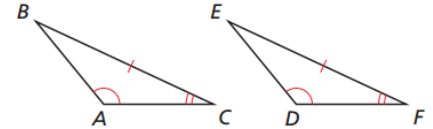
Angle-Side-Angle Congruence Theorem (_____)

If two angles and the included side of one triangle are congruent to two angles and the included side of a second triangle, then the two triangles are congruent.



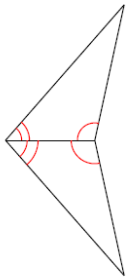
Angle-Angle-Side Congruence Theorem (_____)

If two angles and a non-included side of one triangle are congruent to two angles and the corresponding non-included side of a second triangle, then the two triangles are congruent.

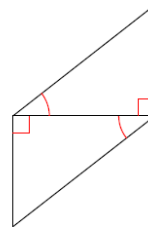


Can the triangles be proven congruent with the information given in the diagram? If so, state the theorem you would use.

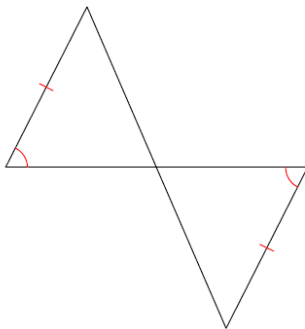
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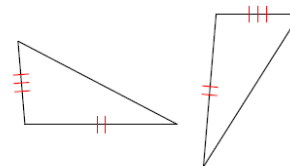
2)



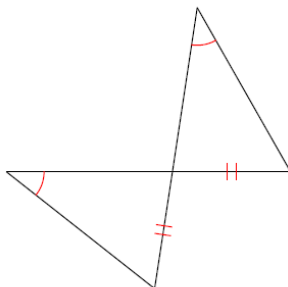
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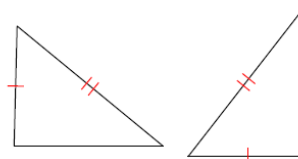
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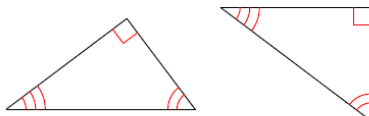
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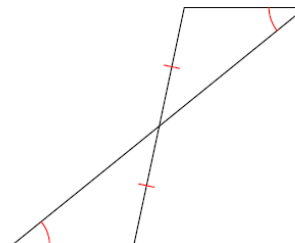
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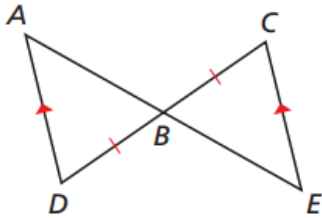
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8)

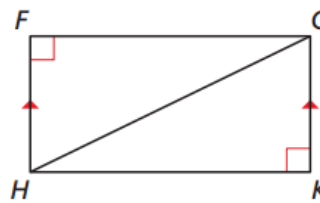


2. Write a two-column proof.
Given: $\overline{AD} \parallel \overline{EC}$, $\overline{BD} \cong \overline{BC}$
Prove: $\triangle ABD \cong \triangle ECB$



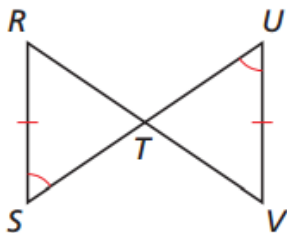
Statements	Reasons

3. Write a two-column proof.
Given: $\overline{HF} \parallel \overline{GK}$, $\angle F$ and $\angle K$ are right angles
Prove: $\triangle HFG \cong \triangle GKH$



Statements	Reasons

4. Write a two-column proof.
Given: the diagram
Prove: $\triangle RST \cong \triangle VUT$



****USE ASA \cong !!!!!!****

Statements	Reasons