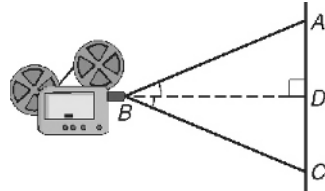


**LESSON**  
**6-2**

# AAS Triangle Congruence

## Practice and Problem Solving: A/B

1. Students in Mrs. Marquez's class are watching a film on the uses of geometry in architecture. The film projector casts the image on a flat screen as shown in the figure. The dotted line is the bisector of  $\overline{AC}$ . Can you use the AAS Theorem to prove that  $\triangle ABD \cong \triangle CBD$ ? Explain why or why not.

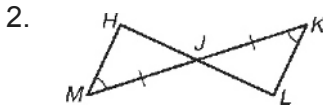



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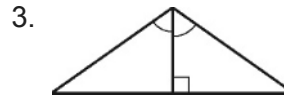


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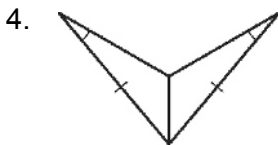
Write whether the AAS Congruence Theorem, the ASA Congruence Theorem, or neither can be used to prove the pair of triangles congruent.



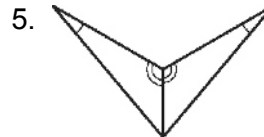

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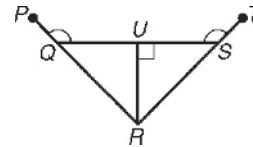

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Write a paragraph proof.

6. **Given:**  $\angle PQU \cong \angle TSU$   
 $\angle QUR$  and  $\angle SUR$  are right angles.  
**Prove:**  $\triangle RUQ \cong \triangle RUS$




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