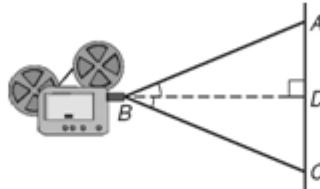


**LESSON**  
**4-5**

**Practice B**

*Triangle Congruence: ASA, AAS, and HL*

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  $\angle ABC$ . Tell whether you can use each congruence theorem to prove that  $\triangle ABD \cong \triangle CBD$ . If not, tell what else you need to know.



1. Hypotenuse-Leg

\_\_\_\_\_

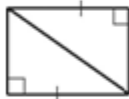
2. Angle-Side-Angle

\_\_\_\_\_

3. Angle-Angle-Side

\_\_\_\_\_

Write which postulate, if any, can be used to prove the pair of triangles congruent.



4. \_\_\_\_\_



5. \_\_\_\_\_



6. \_\_\_\_\_



7. \_\_\_\_\_

Write a paragraph proof.

8. **Given:**  $\angle PQU \cong \angle TSU$ ,  
 $\angle QUR$  and  $\angle SUR$  are right angles.

**Prove:**  $\triangle RUQ \cong \triangle RSU$

