

LESSON
4-4
Practice A
Triangle Congruence: SSS and SAS

Name the included angle for each pair of sides.

- \overline{PQ} and \overline{PR} _____
- \overline{RQ} and \overline{PR} _____
- \overline{PQ} and \overline{RQ} _____



Write SSS (Side-Side-Side Congruence) or SAS (Side-Angle-Side Congruence) next to the correct postulate.

- If three sides of one triangle are congruent to three sides 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. _____

GHJ is a rectangle. A rectangle is a four-sided figure with four right angles and congruent opposite sides. For Exercises 6 and 7, fill in the blanks to show that $\triangle GHJ \cong \triangle IJH$ in two different ways.



- It is given that _____ and _____ are right angles and that $\overline{GH} \cong \overline{JI}$ and $\overline{GJ} \cong \overline{HI}$. All right angles are congruent. So $\triangle GHJ \cong \triangle IJH$ by _____.
- It is given that $\overline{GH} \cong$ _____ and $\overline{GJ} \cong$ _____. By the Reflexive Property of \cong , $\overline{JH} \cong$ _____. So $\triangle GHJ \cong \triangle IJH$ by _____.
- U.S. President Harry Truman and British Prime Minister Winston Churchill both wore polka-dot bow ties while in office. A well-tied bow tie resembles two congruent triangles. Use the phrases from the word bank to complete this two-column proof.



$\angle ABE \cong \angle DBC$,
 SAS,
 $\overline{BA} \cong \overline{BD}$,
 $\overline{BE} \cong \overline{BC}$

Given: $\overline{BA} \cong \overline{BD}$, $\overline{BE} \cong \overline{BC}$

Prove: $\triangle ABE \cong \triangle DBC$

Proof:

Statements	Reasons
1. a. _____	1. Given
2. b. _____	2. Vert. \angle Thm.
3. $\triangle ABE \cong \triangle DBC$	3. c. _____

Holt Geometry 5 4 Worksheet Answers

ML Morrison

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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