

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

Name the included angle for each pair of sides.

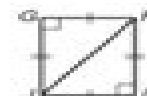
1.  $\overline{PQ}$  and  $\overline{PR}$  \_\_\_\_\_
2.  $\overline{RQ}$  and  $\overline{PR}$  \_\_\_\_\_
3.  $\overline{PQ}$  and  $\overline{RQ}$  \_\_\_\_\_



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

4. If three sides of one triangle are congruent to three sides of another triangle, then the triangles are congruent. \_\_\_\_\_
5. 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.



6. 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 \_\_\_\_\_.
7. 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 \_\_\_\_\_.
8. 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 Lesson 5 4 Answers Practice

**Minjie Lin**



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web a first quadrant coordinate plane the  $x$  and  $y$  axes each scale by one a graph of a line goes through the points  $(0, 3)$  and  $(2, 7)$  which are plotted and labeled let  $s$  write the equation of the line that passes through the points  $(0, 3)$  and  $(2, 7)$  in slope intercept form

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