

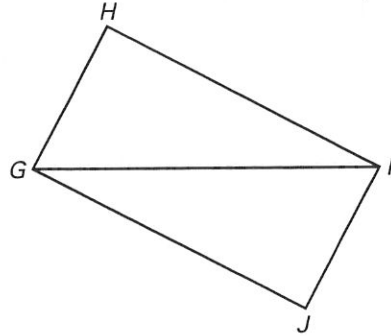
LESSON
4.5

Practice A

For use with the lesson "Prove Triangles Congruent by SAS and HL"

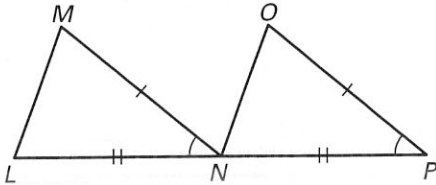
Use the diagram to name the included angle between the given pair of sides.

1. \overline{GH} and \overline{HI}
2. \overline{HI} and \overline{IG}
3. \overline{IG} and \overline{HG}
4. \overline{GI} and \overline{IJ}
5. \overline{JG} and \overline{IG}
6. \overline{IJ} and \overline{GJ}

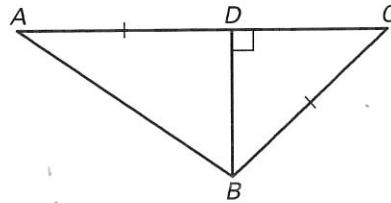


Decide whether enough information is given to prove that the triangles are congruent using the SAS Congruence Postulate.

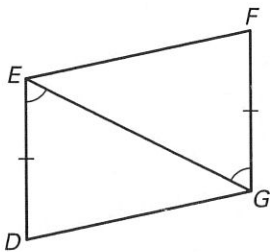
7. $\triangle LMN, \triangle NOP$



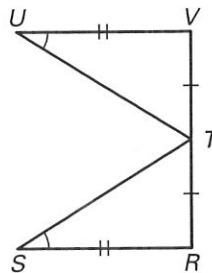
8. $\triangle ABD, \triangle CBD$



9. $\triangle DEG, \triangle FGE$



10. $\triangle RST, \triangle VUT$



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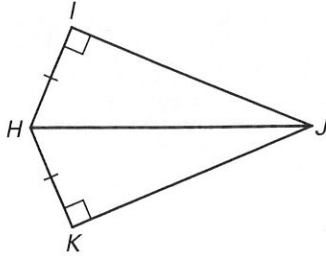
Practice A *continued*

For use with the lesson "Prove Triangles Congruent by SAS and HL"

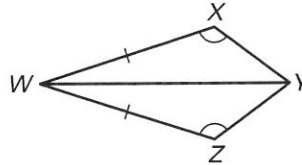
LESSON 4.5

Decide whether enough information is given to prove that the triangles are congruent using the HL Congruence Theorem.

11. $\triangle HIJ, \triangle HKJ$



12. $\triangle WXY, \triangle WZY$

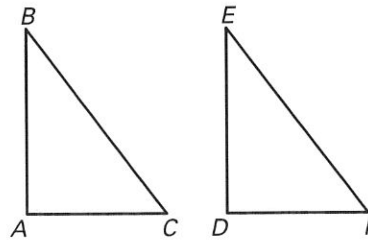


State the third congruence that must be given to prove that $\triangle ABC \cong \triangle DEF$ using the indicated postulate or theorem.

13. **GIVEN:** $\angle B \cong \angle E, \overline{BC} \cong \overline{EF}, \underline{\quad} \cong \underline{\quad}$
Use the SAS Congruence Postulate.

14. **GIVEN:** $\overline{AB} \cong \overline{DE}, \overline{BC} \cong \overline{EF}, \underline{\quad} \cong \underline{\quad}$
Use the SSS Congruence Postulate.

15. **GIVEN:** $\overline{AC} \cong \overline{DF}, \angle A$ is a right angle and $\angle A \cong \angle D, \underline{\quad} \cong \underline{\quad}$
Use the HL Congruence Theorem.



16. **Skateboards** Suppose you have two skateboard ramps. What information do you need to know to prove that the triangular ramps are congruent using SAS? using HL?