

Name _____

Date _____

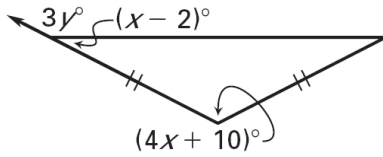
LESSON 4.7

Practice B

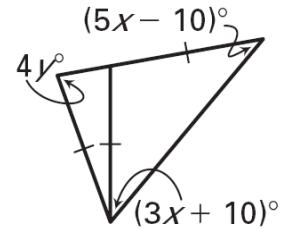
For use with pages 264-270

Find the values of x and y .

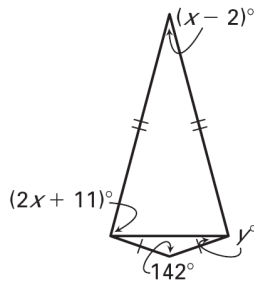
1.



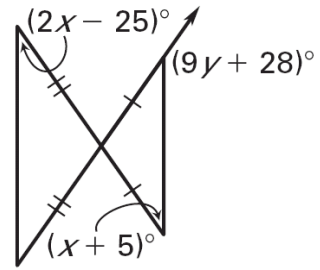
2.



3.

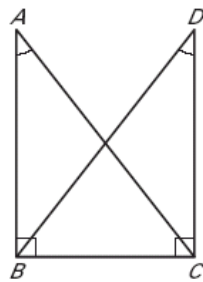


4.

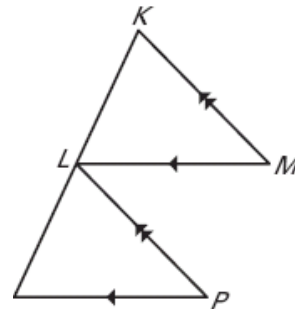


Decide whether enough information is given to prove that the triangles are congruent. *Explain* your answer.

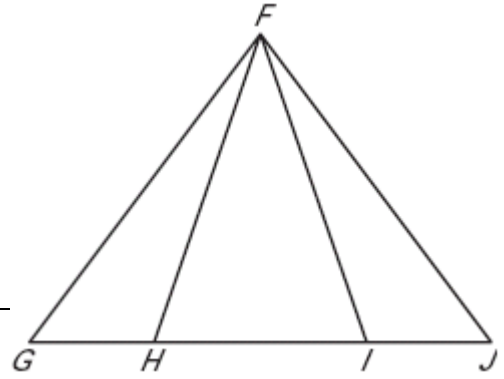
5.



6.

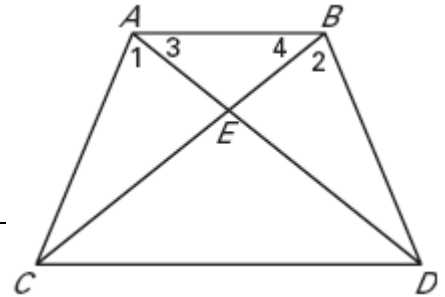


7. **GIVEN:** $\overline{FG} \cong \overline{FJ}$, $\overline{HG} \cong \overline{IJ}$
PROVE: $\overline{HF} \cong \overline{IF}$



Statements	Reasons

8. **GIVEN:** $\angle 1 \cong \angle 2$, $\overline{AC} \cong \overline{BD}$
PROVE: $\angle 3 \cong \angle 4$



Statements	Reasons

In Exercises 9-14, use the diagram. Complete the statement. Tell what theorem you used.

9. If $\overline{PQ} \cong \overline{PT}$, then $\angle \underline{\hspace{1cm}} = \angle \underline{\hspace{1cm}}$.
10. If $\angle PQV \cong \angle PVQ$, then $\underline{\hspace{1cm}} \cong \underline{\hspace{1cm}}$.
11. If $\overline{RP} \cong \overline{SP}$, then $\angle \underline{\hspace{1cm}} \cong \angle \underline{\hspace{1cm}}$.
12. If $\overline{TP} \cong \overline{TR}$, then $\angle \underline{\hspace{1cm}} \cong \angle \underline{\hspace{1cm}}$.
13. If $\angle PSQ \cong \angle SPQ$, then $\underline{\hspace{1cm}} \cong \underline{\hspace{1cm}}$.
14. If $\angle PUV \cong \angle PVU$, then $\underline{\hspace{1cm}} \cong \underline{\hspace{1cm}}$.

