Name _____ **Date** _____

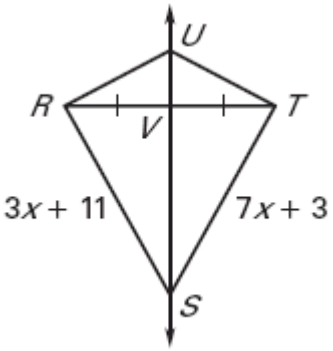
LESSON 5.2

Practice C

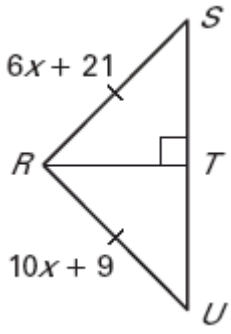
For use with pages 303–309

Find the length of $\overline{RS}$.

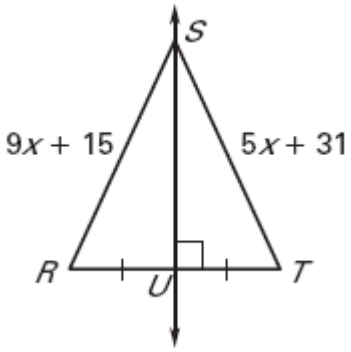
1.



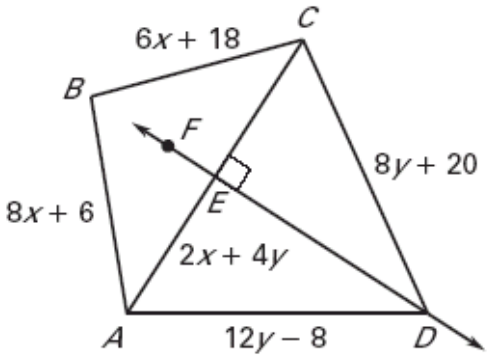
2.



3.



Use the diagram. $\overline{DE}$ is the perpendicular bisector of $\overline{AC}$. Find the indicated measure.



4. Find *AB*.

5. Find *AE*.

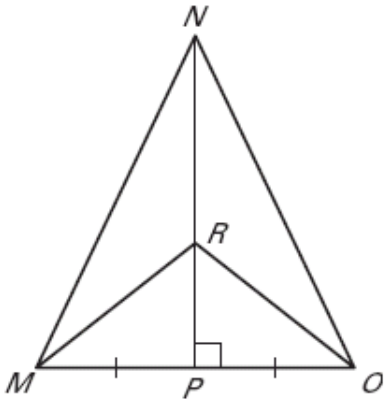
6. Find *AD*.

7. Find *BC*.

8. Find *AC*.

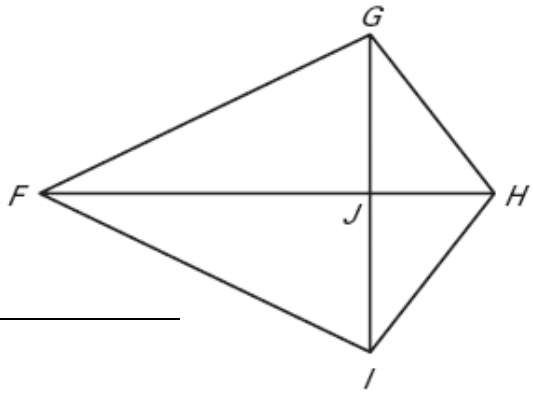
9. Find *CD*.

10. GIVEN: $\overline{NP}$ is a perpendicular bisector of $\overline{MO}$.
PROVE: $\Delta NMR \cong \Delta NOR$



Statements	Reasons

11. GIVEN: $\Delta FJG \cong \Delta FJI$
PROVE: $\overline{HI} \cong \overline{HG}$



Statements	Reasons

12. Bridge In the diagram, the road is perpendicular to the support beam and $\overline{AB} \cong \overline{CB}$. What theorem allows you to conclude that $\overline{AD} \cong \overline{CD}$? *Explain*.