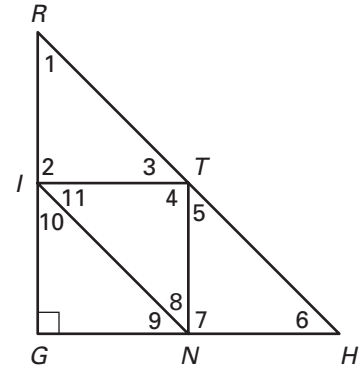


**Practice A**

For use with pages 236–242

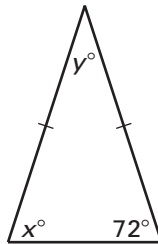
Use the diagram to answer the following.

- If  $\overline{RI} \cong \overline{IT}$ , what angles are congruent?
- If  $\overline{TN} \cong \overline{IT}$ , what angles are congruent?
- If  $\angle 1 \cong \angle 6$ , what segments are congruent?
- The legs of isosceles triangle  $\triangle TNH$  are \_\_\_\_\_ and \_\_\_\_\_.
- The vertex angle of  $\triangle RGH$  is \_\_\_\_\_.

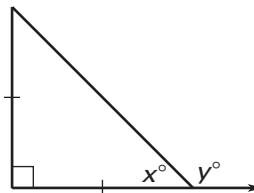


Solve for  $x$  and  $y$ .

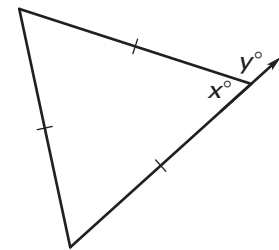
6.



7.

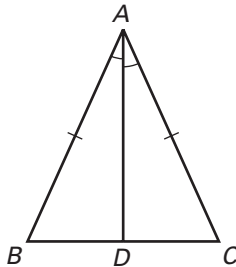


8.

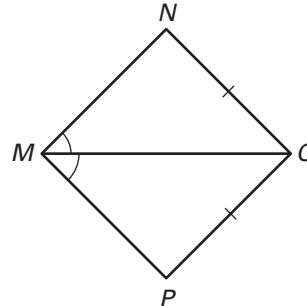


Decide whether enough information is given to prove that the triangles are congruent. Explain your answer.

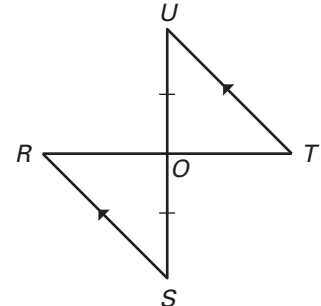
9.



10.

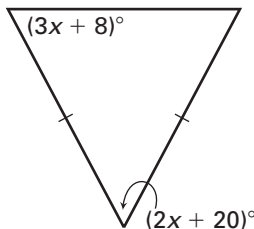


11.

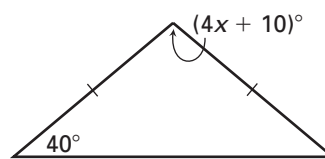


Solve for  $x$ .

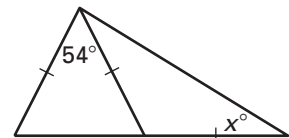
12.



13.



14.



Write a two-column or a paragraph proof.

15. Given:  $\overline{BD}$  bisects  $\angle ADC$ .

$$\overline{DB} \perp \overline{AC}$$

Prove:  $\triangle ADC$  is isosceles

