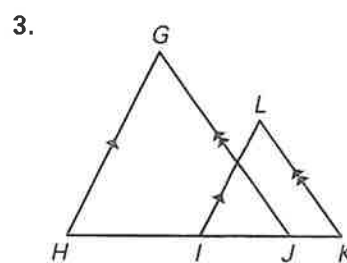
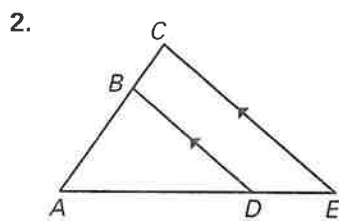
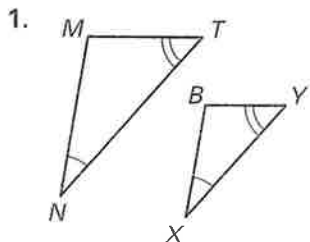


**Practice B**

For use with pages 480–487

The triangles shown are similar. List all the pairs of congruent angles and write the statement of proportionality.



Use the diagram to complete the following.

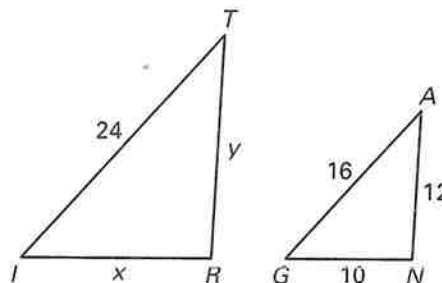
4.  $\triangle TIR \sim \triangle \underline{\quad ? \quad}$

5.  $\frac{TI}{?} = \frac{IR}{?} = \frac{RT}{?}$

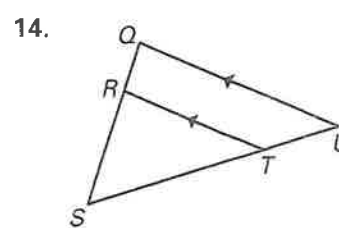
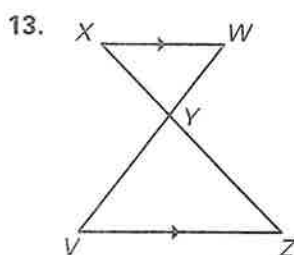
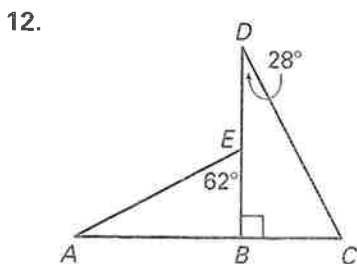
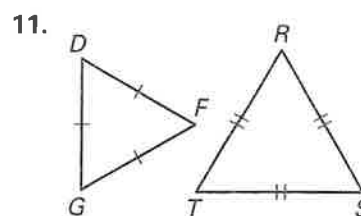
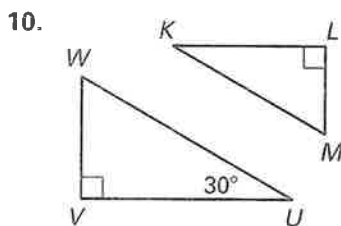
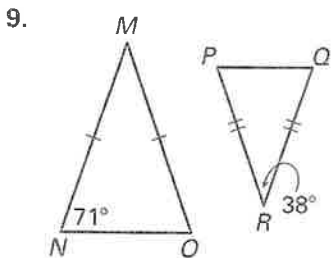
6.  $\frac{24}{?} = \frac{?}{10}$

7.  $\frac{?}{24} = \frac{12}{?}$

8. Solve for  $x$  and  $y$ .



Determine whether the triangles can be proved similar. If they are similar, write a similarity statement. If they are not similar, explain why.



Write a paragraph or a two-column proof.

15. **Given:**  $\overline{DE}$  is a midsegment of  $\triangle ABC$ .  
**Prove:**  $\triangle ABC \sim \triangle DBE$

