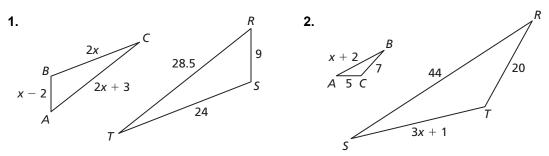
8.5 Practice B

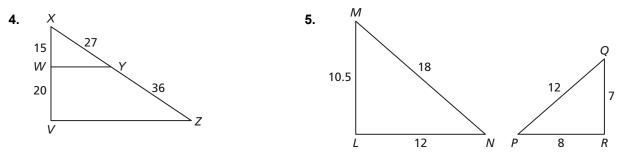
In Exercises 1 and 2, find the value of x that makes  $\triangle ABC \sim \triangle RST$ .



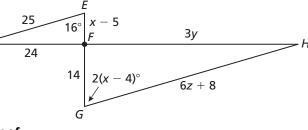
**3** Verify that  $\triangle JKL \sim \triangle PQR$ . Find the scale factor of  $\triangle JKL$  to  $\triangle PQR$ .

 $\Delta JKL: JK = 15, KL = 30, JL = 25$   $\Delta PQR: PQ = 12, QR = 24, PR = 20$ 

In Exercises 4 and 5, show that the triangles are similar and write a similarity statement. Explain your reasoning.



- 6.  $\triangle ABC$  has side lengths 42, 21, and 35 units. The shortest side of a triangle similar to  $\triangle ABC$  is 9 units long. Find the other lengths of the triangle.
- 7. Use the figure to find the values of *x*, *y*, and *z* that makes  $\triangle DEF \sim \triangle GHF$ .



## Use the figure to write a two-column proof

