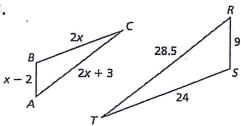
## 8.5

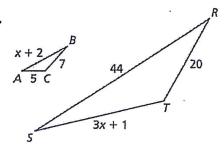
## Practice B

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

1.



2.



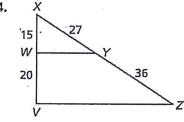
3 Verify that  $\triangle JKL - \triangle PQR$ . Find the scale factor of  $\triangle JKL$  to  $\triangle PQR$ .

$$\triangle JKL: JK = 15, KL = 30, JL = 25$$

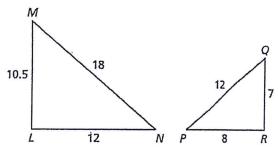
$$\Delta PQR$$
;  $PQ = 12$ ,  $QR = 24$ ,  $PR = 20$ 

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

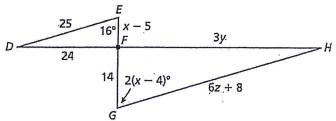
4.



5.

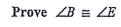


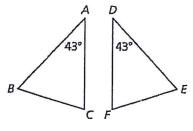
- 6.  $\triangle ABC$  has side lengths 42, 21, and 35 units. The shortest side of a triangle similar to  $\triangle ABC$  is 9 units long. Find the other lengths of the triangle.
- 7. Use the figure to find the values of x, y, and z that makes  $\triangle DEF \sim \triangle H GF$ .



Use the figure to write a two-column proof

8. Given  $\frac{AC}{DF} = \frac{AB}{DE}$ 





9. Given LN = 2x

$$MN = 2y$$

$$NP = x$$

$$NQ = y$$

Prove DMLN - DOFN

