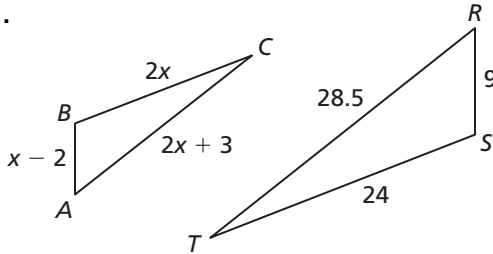


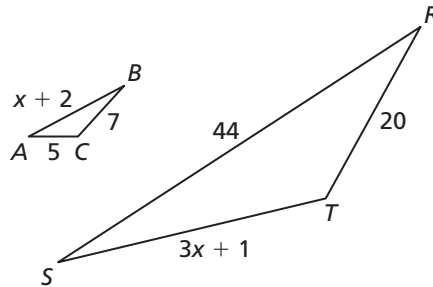
8.5 Practice B

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

1.



2.



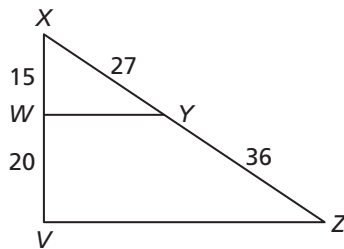
3 Verify that $\triangle JKL \sim \triangle PQR$. Find the scale factor of $\triangle JKL$ to $\triangle PQR$.

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

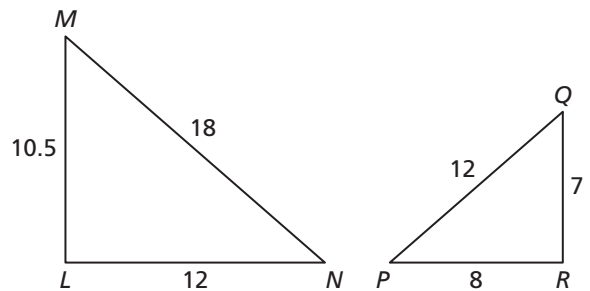
$$\triangle PQR: PQ = 12, QR = 24, PR = 20$$

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

4.

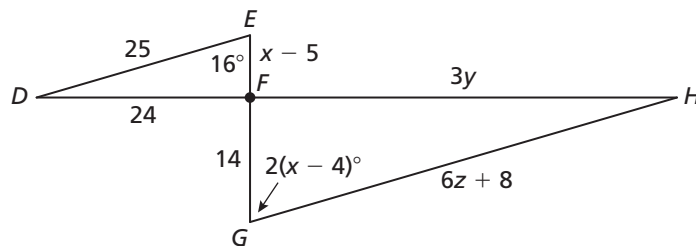


5.



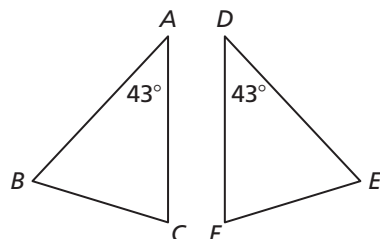
6. $\triangle ABC$ has side lengths 42, 21, and 35 units. The shortest side of a triangle similar to $\triangle ABC$ is 9 units long. Find the other lengths of the triangle.

7. Use the figure to find the values of x , y , and z that makes $\triangle DEF \sim \triangle GHF$.



Use the figure to write a two-column proof

8. Given $\frac{AC}{DF} = \frac{AB}{DE}$ Prove $\angle B \cong \angle E$



9. Given $LN = 2x$

$$MN = 2y$$

$$NP = x$$

$$NQ = y$$

Prove $\triangle MLN \sim \triangle PQN$

