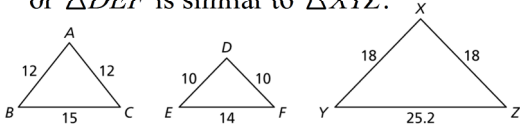


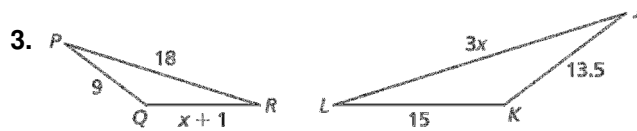
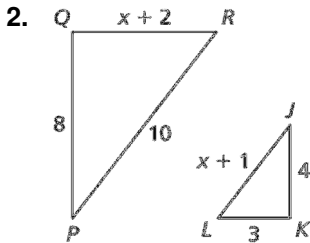
8.3

Practice A

1. Determine whether $\triangle ABC$ or $\triangle DEF$ is similar to $\triangle XYZ$.



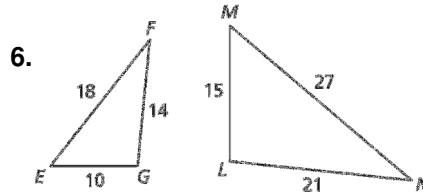
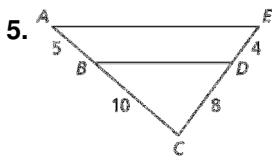
In Exercises 2 and 3, find the value of x that makes $\triangle PQR \sim \triangle JKL$.



4. Verify that $\triangle TUV \sim \triangle XYZ$. Find the scale factor of $\triangle TUV$ to $\triangle XYZ$.

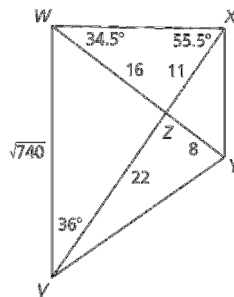
$\triangle TUV: TU = 15, UV = 21, TV = 18$ $\triangle XYZ: XY = 35, YZ = 49, XZ = 42$

In Exercises 5 and 6, show that the triangles are similar and write a similarity statement. Explain your reasoning.



In Exercises 7–11, use the diagram to copy and complete the statement.

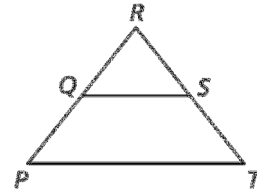
7. $\triangle VWZ \sim$ _____ 8. $m\angle VZY =$ _____
 9. $m\angle VWY =$ _____ 10. $m\angle WXY =$ _____
 11. $XY =$ _____



12. In the figure for Exercises 7–11, is $\triangle WXZ \sim \triangle YVZ$? Explain your reasoning.

13. Use the figure to write a two-column proof.

Given: $\frac{PR}{QR} = \frac{TR}{SR}$ Prove: $\overline{QS} \parallel \overline{PT}$



8.3

Practice B

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

