

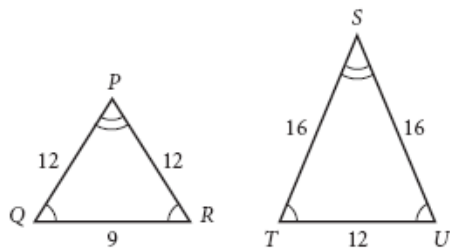


Practice Masters Level B

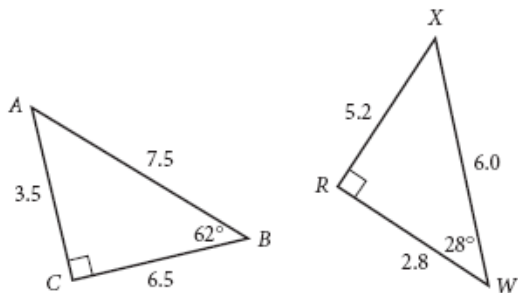
8.2 Similar Polygons

In Exercises 1 and 2, determine whether the polygons are similar. Explain your reasoning. If the polygons are similar, write a similarity statement.

1.

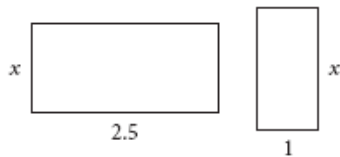


2.

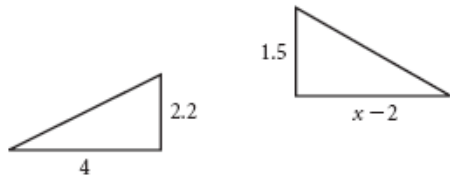


In Exercises 3 and 4, the polygons in each pair are similar. Find x .

3.



4.



Solve each proportion for y .

5. $\frac{2y + 1}{15} = \frac{3y - 2}{3}$ _____

6. $\frac{5}{2y} = \frac{18y}{5}$ _____

7. Carlos decides to make a scale drawing to help him plan how to arrange his furniture in his room in a new house. His new room will be 10 feet wide and 14 feet long, and he makes his scale drawing 5 inches wide and 7 inches long. His desktop measures 2 feet by 4.5 feet. What size rectangle should he use to represent his desk?

8. Verify the "Add-One" Property for the proportion $\frac{2}{5} = \frac{6}{15}$.
