

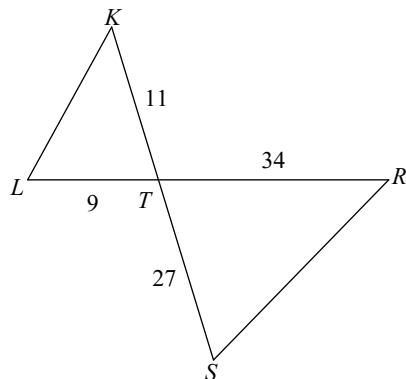
Chapter 6 Review

Name _____

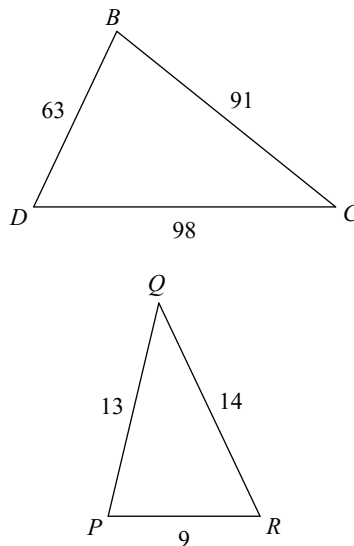
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State if the triangles in each pair are similar. If so, state how you know they are similar.

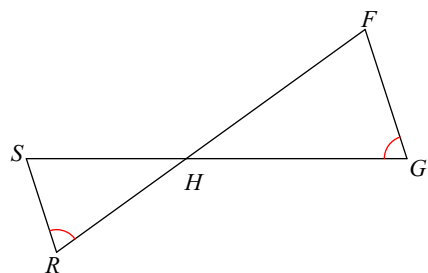
1)



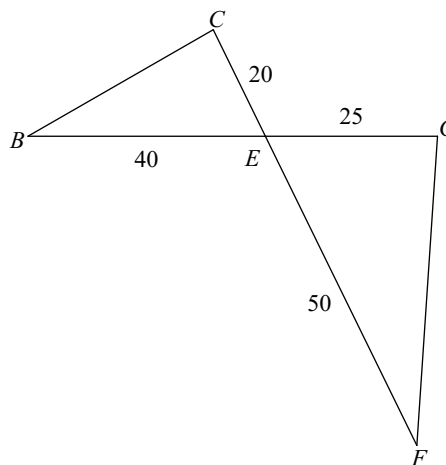
2)



3)



4)

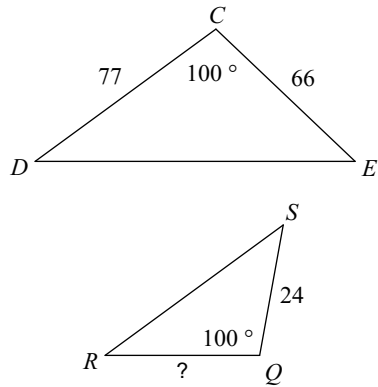


5) Triangle A has interior angles of 50° and 20° . Triangle B has interior angles of 20° and 110° . Are they similar?

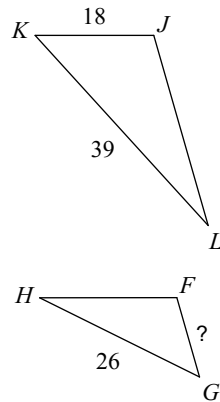
6) Triangle A has interior angles of 60° and 70° . Triangle B has interior angles of 70° and 40° . Are they similar?

Find the missing length. The triangles in each pair are similar.

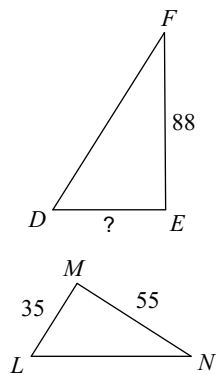
7)



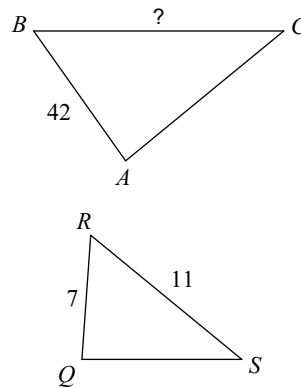
8)



9)

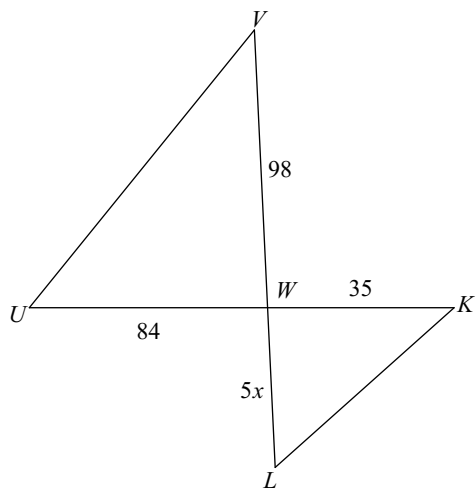


10)

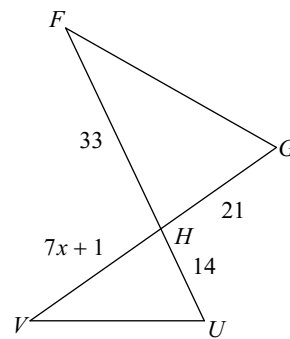


Solve for x . The triangles in each pair are similar.

11)

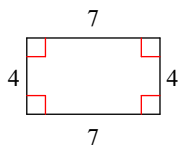
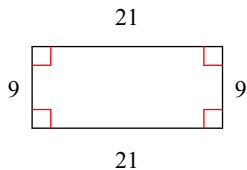


12)

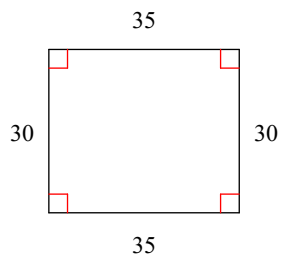
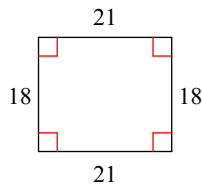


State if the polygons are similar.

13)

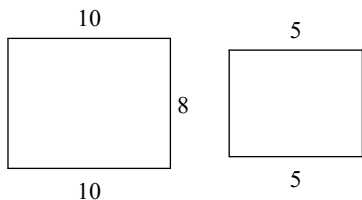


14)

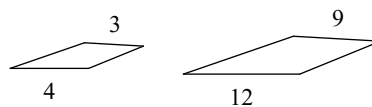


The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.

15)

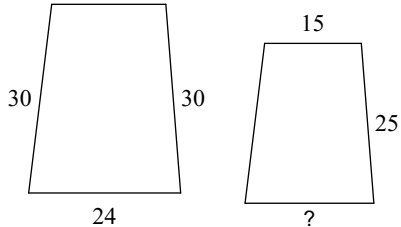


16)

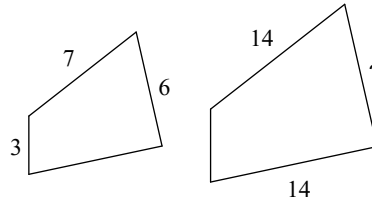


The polygons in each pair are similar. Find the missing side length.

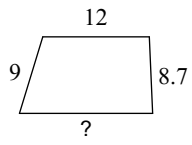
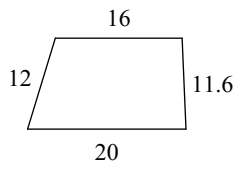
17)



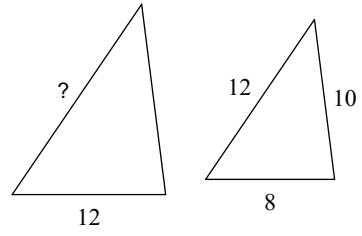
18)



19)

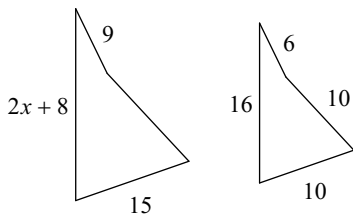


20)

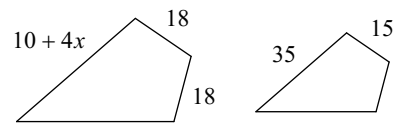


Solve for x . The polygons in each pair are similar.

21)



22)



Answers to Chapter 6 Review

- | | | | |
|----------------------------|----------------------------|---------------------------------|-------------|
| 1) not similar | 2) similar; SSS similarity | 3) similar; AA similarity | |
| 4) similar; SAS similarity | 5) Yes, AAA | 6) No, angles are not the same. | |
| 7) 28 | 8) 12 | 9) 56 | 10) 66 |
| 11) 6 | 12) 3 | 13) not similar | 14) similar |
| 15) 1 : 2 | 16) 1 : 3 | 17) 20 | 18) 12 |
| 19) 15 | 20) 18 | 21) 8 | 22) 8 |