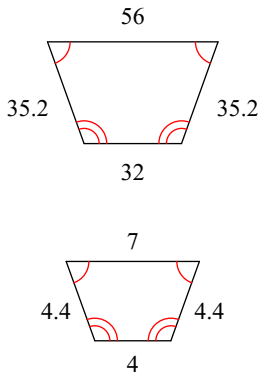
Geometry Name_____

Test #1 Review Sheet Similarity

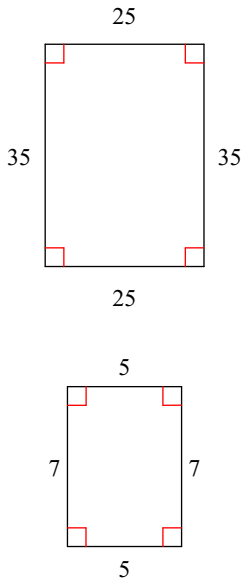
Date_____ Period____

State if the polygons are similar.

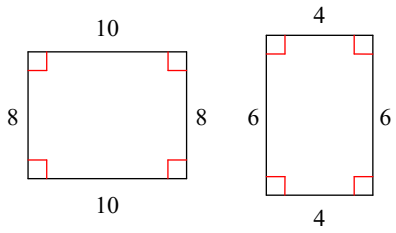
1)



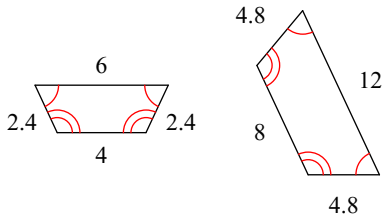
2)



3)

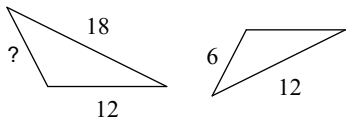


4)

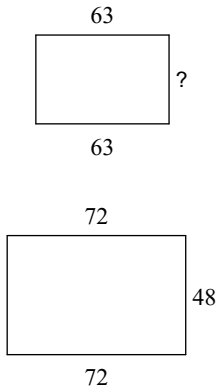


The polygons in each pair are similar. Find the missing side length.

5)

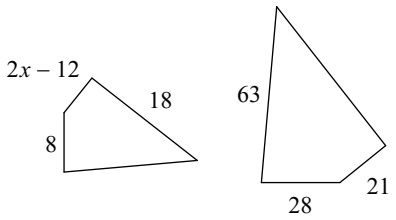


6)

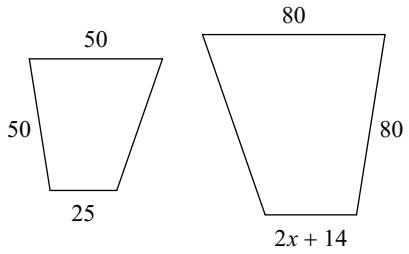


Solve for *x*. The polygons in each pair are similar.

7)

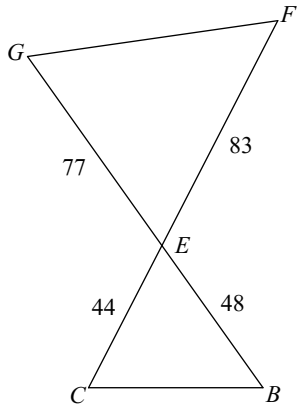


8)



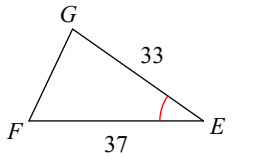
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

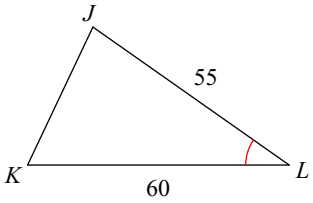
9)



△*EFG* ~ _____

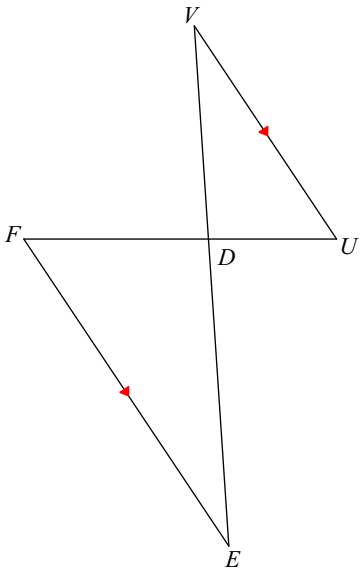
10)





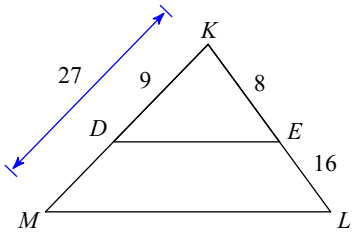
△*LKJ* ~ _____

11)



△*DEF* ~ _____

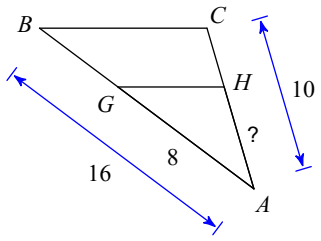
12)



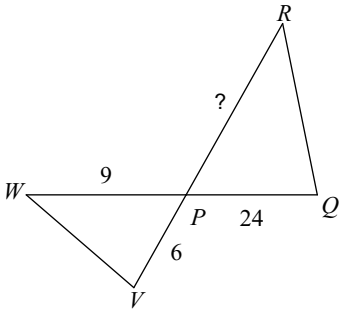
△*KLM* ~ _____

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

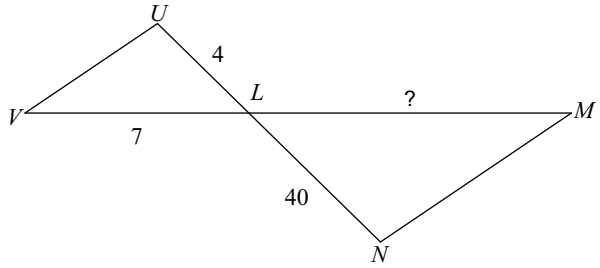
13)



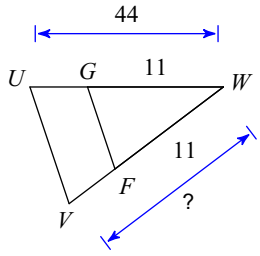
14)



15)

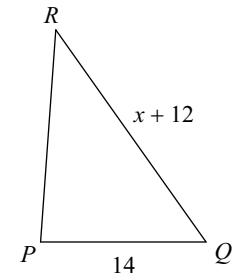


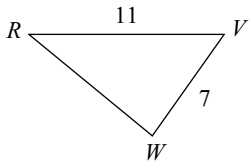
16)



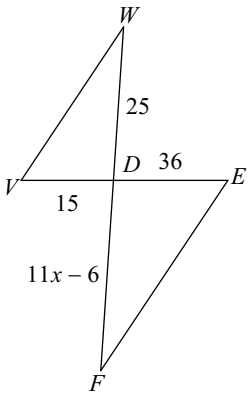
Solve for *x*. The triangles in each pair are similar.

17)



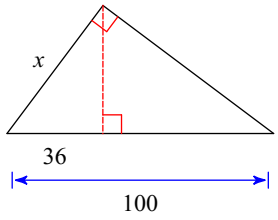


18)

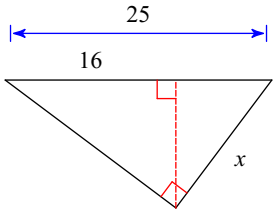


Find the missing length indicated. Leave your answer in simplest radical form.

19)

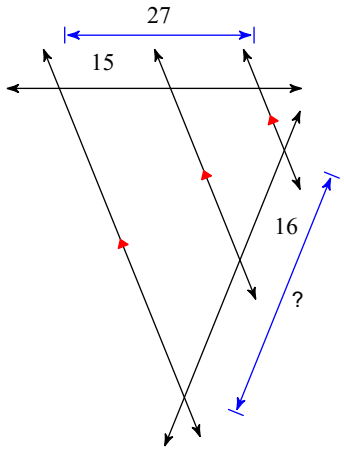


20)

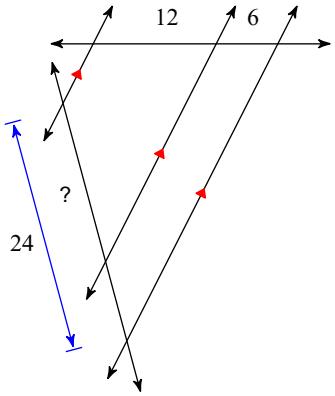


Find the missing length indicated.

21)

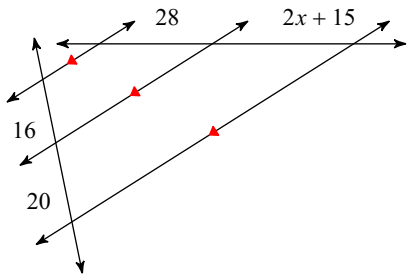


22)

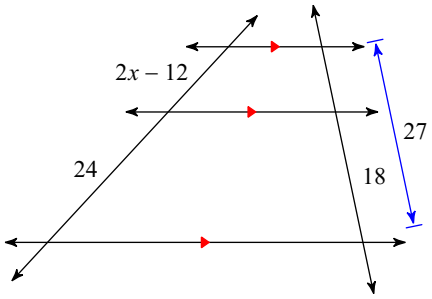


Solve for *x*.

23)

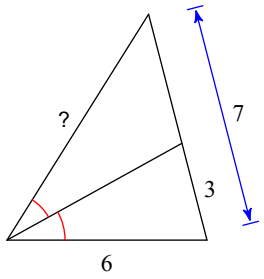


24)

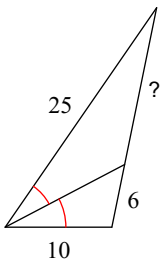


Find the missing length indicated.

25)

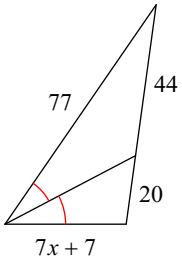


26)

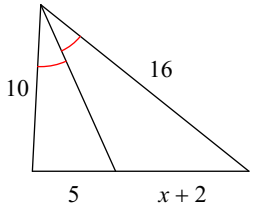


Solve for *x*.

27)

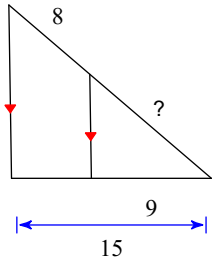


28)

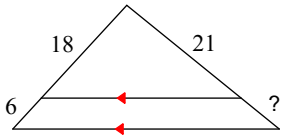


Find the missing length indicated.

29)



30)



Solve each proportion.

31) $\frac{2}{b-9}=\frac{3}{5}$

32) $\frac{2}{x+3}=\frac{3}{2}$

33) $\frac{k}{6}=\frac{k-9}{5}$

34) $\frac{4}{6}=\frac{x+3}{x}$