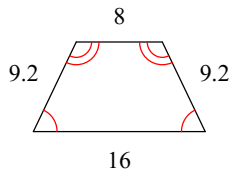
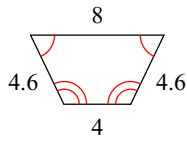


Chapter 7 Review

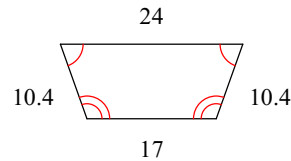
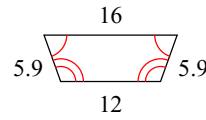
State if the polygons are similar. Explain if yes or no.

1)



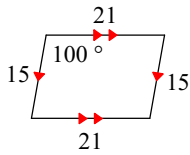
similar

2)

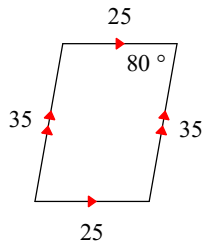


not similar

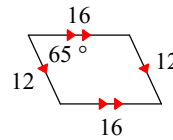
3)



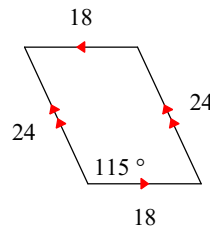
similar



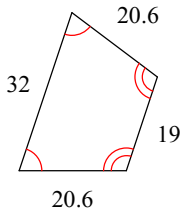
4)



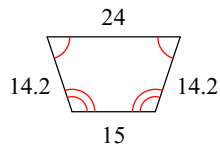
similar



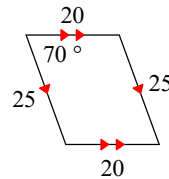
5)



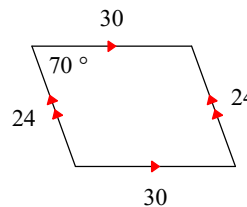
not similar



6)

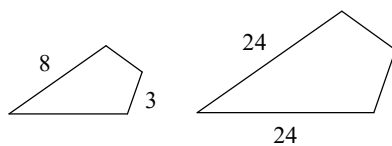


similar



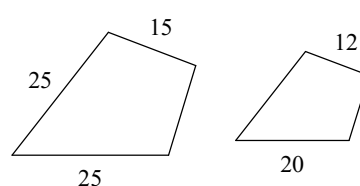
The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.

7)

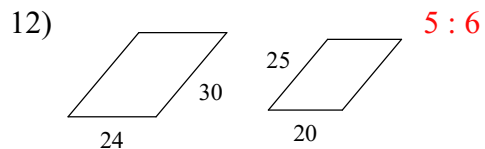
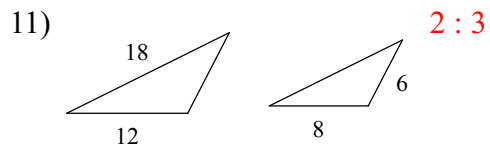
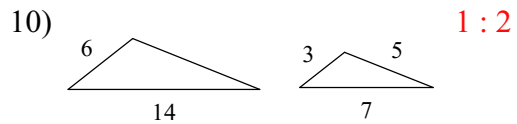
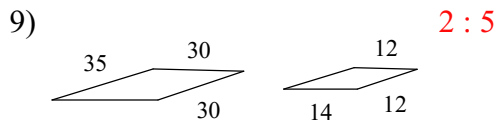


1 : 3

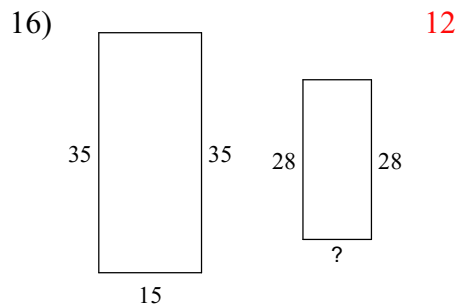
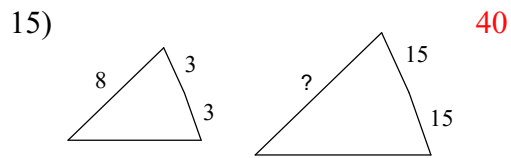
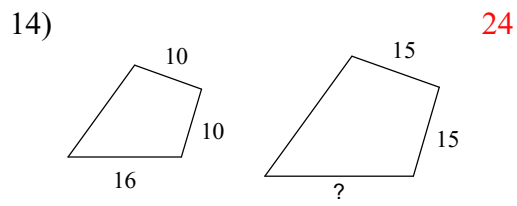
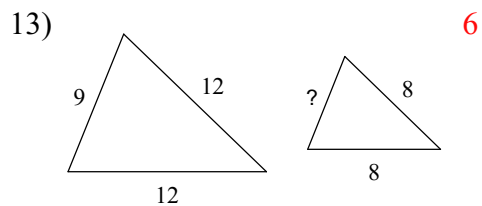
8)



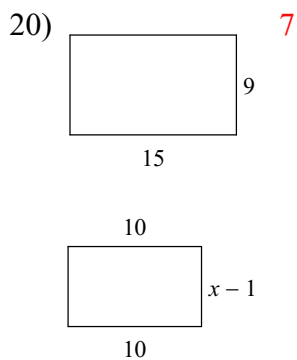
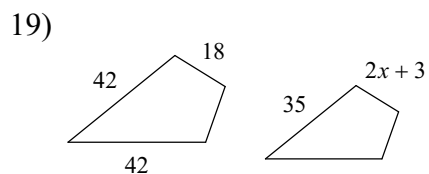
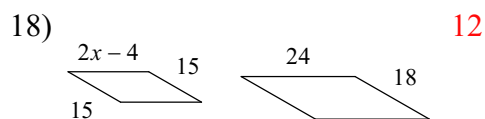
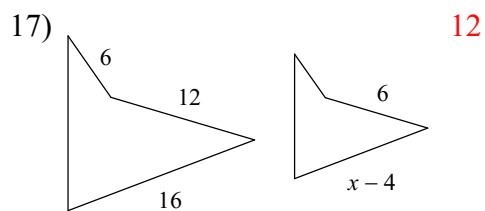
4 : 5



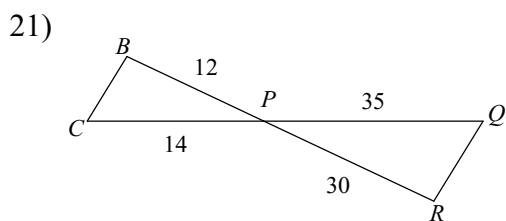
**The polygons in each pair are similar. Find the missing side length.**



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

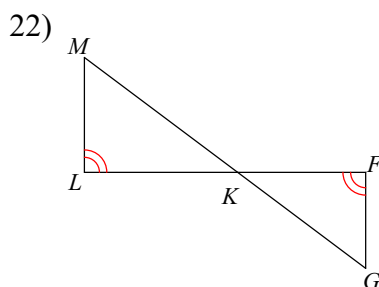


**State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.**



$\triangle PQR \sim$  \_\_\_\_\_

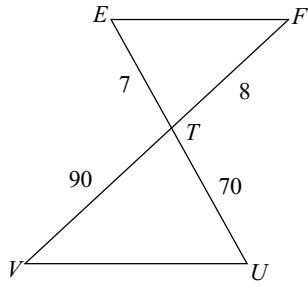
similar; SAS similarity;  $\triangle PCB$



similar; AA similarity;  $\triangle KFG$

$\triangle KLM \sim$  \_\_\_\_\_

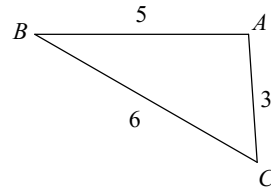
23)



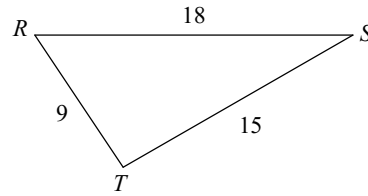
$\triangle TUV \sim$  \_\_\_\_\_

not similar

24)

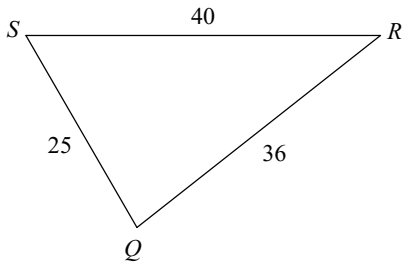
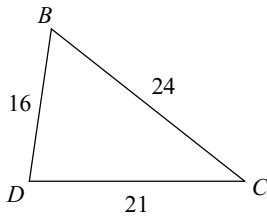


similar; SSS similarity;  $\triangle$



$\triangle RST \sim$  \_\_\_\_\_

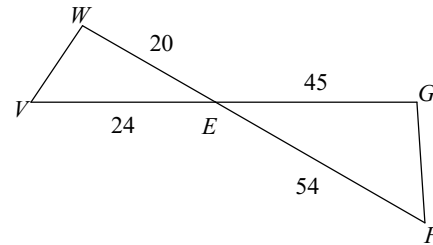
25)



$\triangle SRQ \sim$  \_\_\_\_\_

not similar

26)

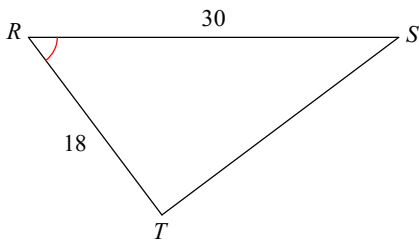
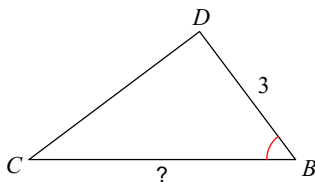


$\triangle EFG \sim$  \_\_\_\_\_

similar; SAS similarity;  $\triangle EVW$

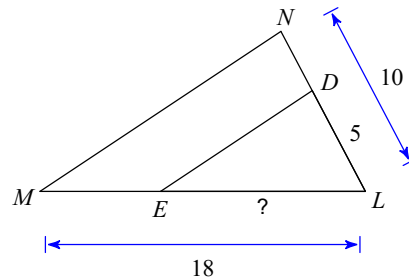
Find the missing length. The triangles in each pair are similar.

27)  $\triangle RST \sim \triangle BCD$



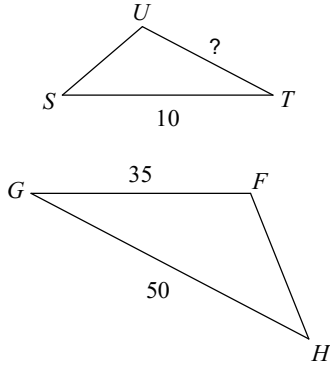
5

28)

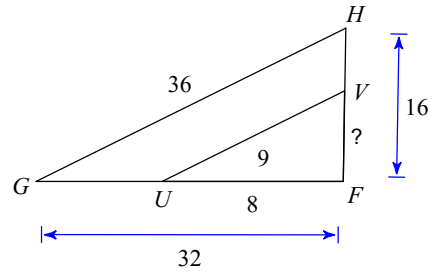


9

29)  $\triangle FGH \sim \triangle UTS$  7



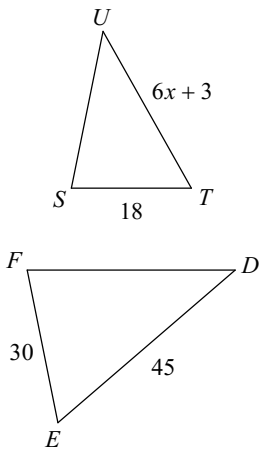
30)



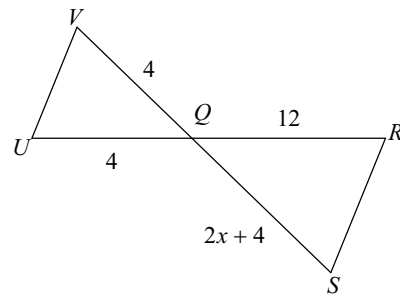
4

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

31)  $\triangle DEF \sim \triangle UTS$  4

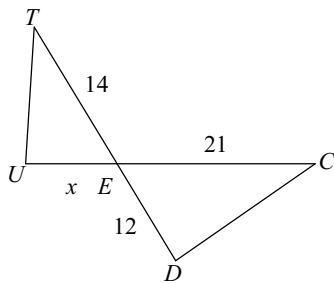


32)  $\triangle QRS \sim \triangle QUV$

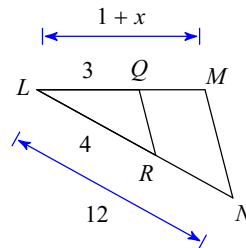


4

33)  $\triangle EDC \sim \triangle EUT$  8

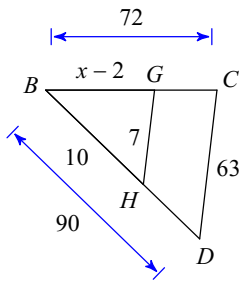


34)



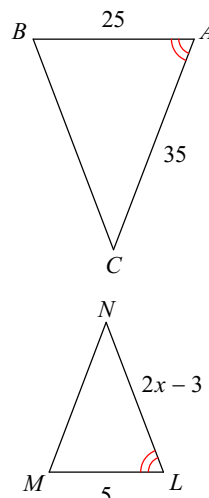
8

35)

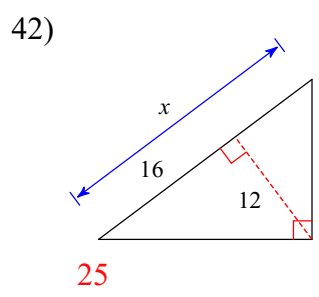
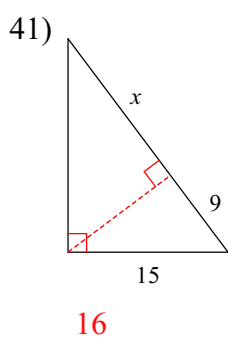
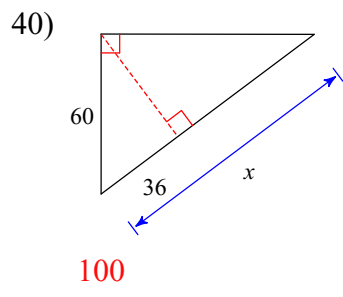
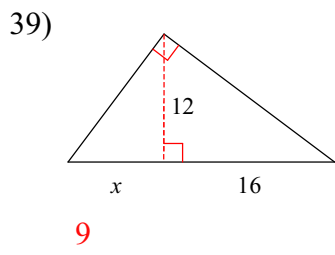
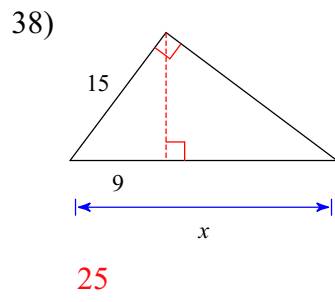
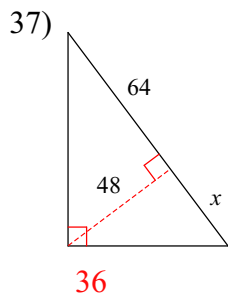


10

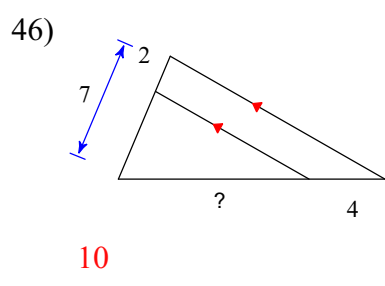
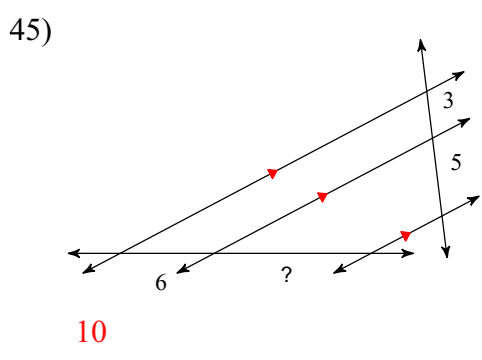
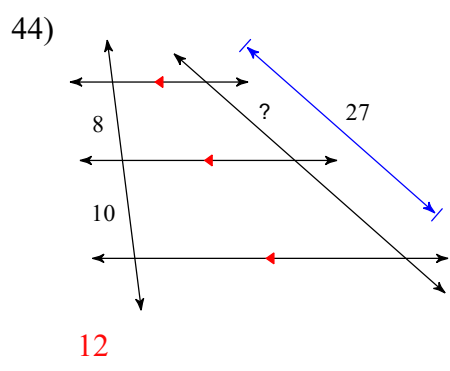
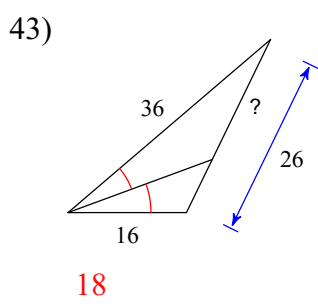
36)  $\triangle ABC \sim \triangle LMN$  5



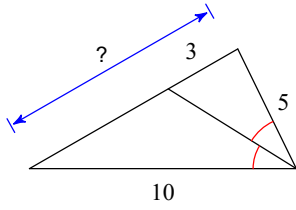
Find the missing length indicated. Leave your answer in simplest radical form.



Find the missing length indicated.

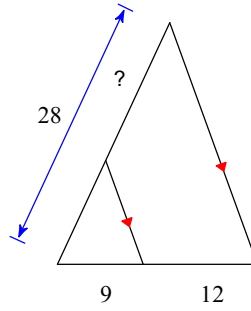


47)



9

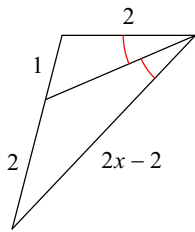
48)



16

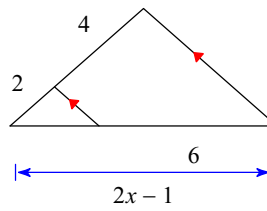
**Solve for  $x$ .**

49)



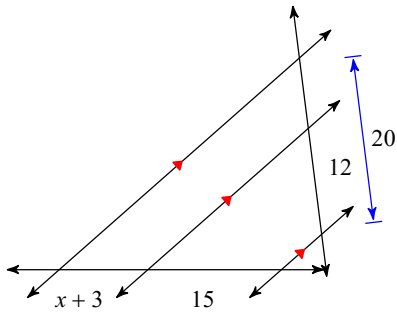
3

50)



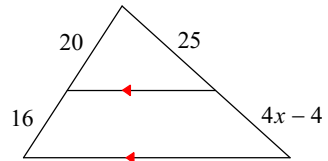
5

51)



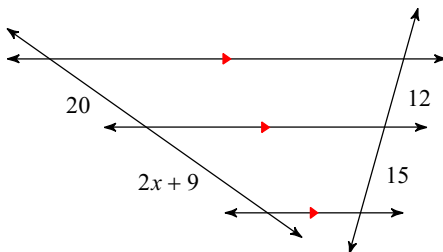
7

52)



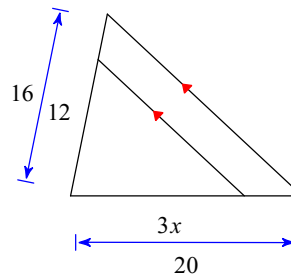
6

53)



8

54)



5