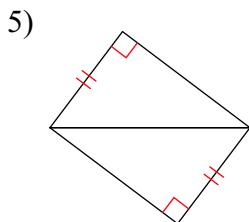
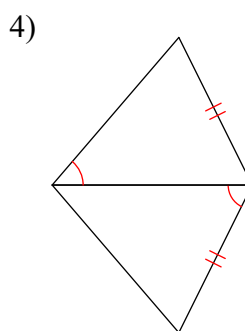
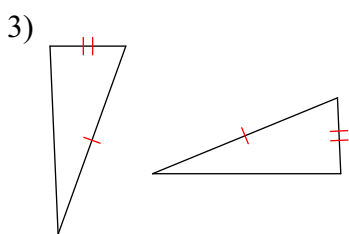
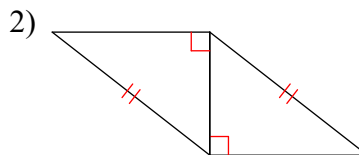
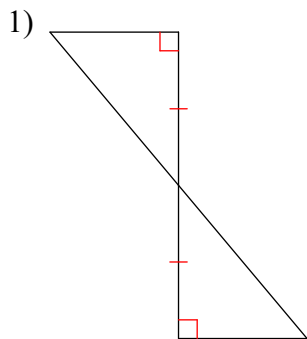
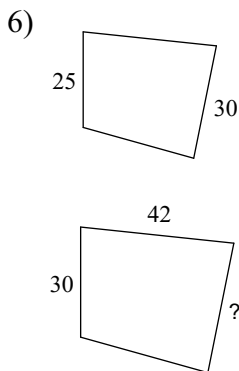


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State if the two triangles are congruent. If they are, state how you know.

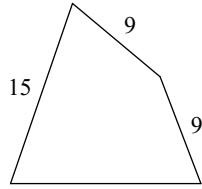
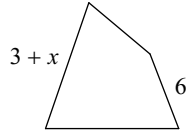


The polygons in each pair are similar. Find the missing side length.

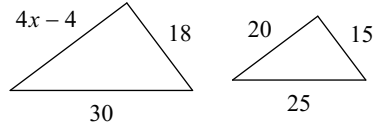


Solve for  $x$ . The polygons in each pair are similar.

7)

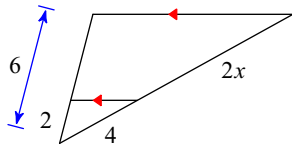


8)

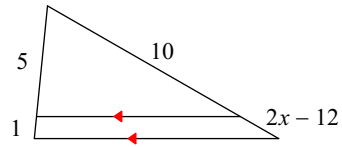


Solve for  $x$ .

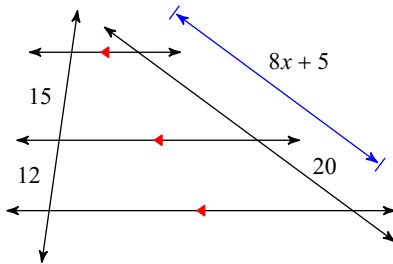
9)



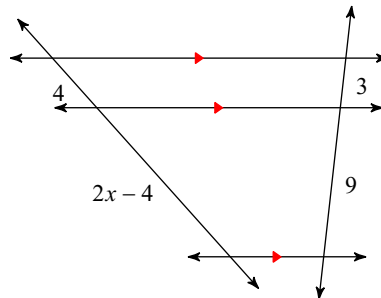
10)



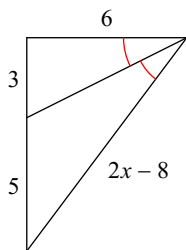
11)



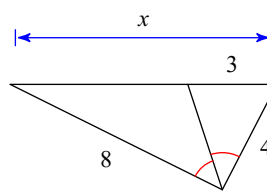
12)



13)

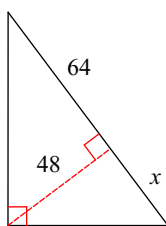


14)

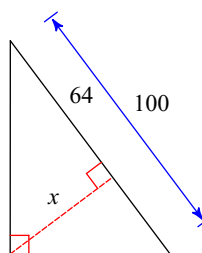


Find the missing length indicated. Leave your answer in simplest radical form.

15)

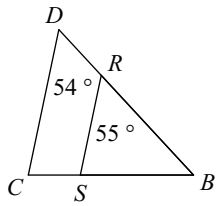


16)



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

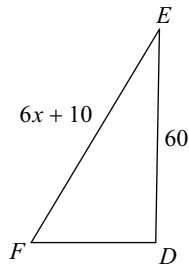
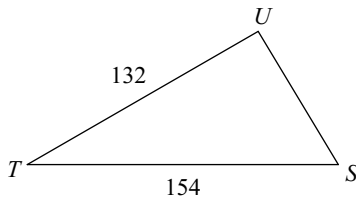
17)



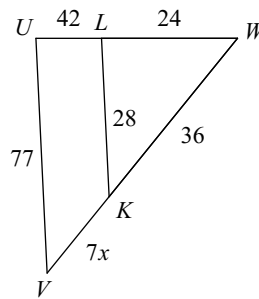
$\triangle BCD \sim$  \_\_\_\_\_

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

18)  $\triangle STU \sim \triangle FED$

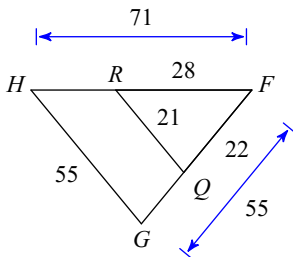


19)



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

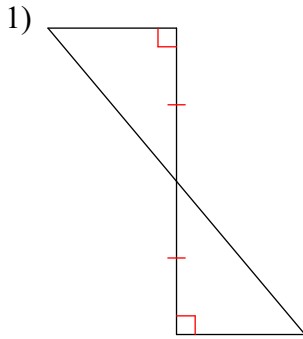
20)



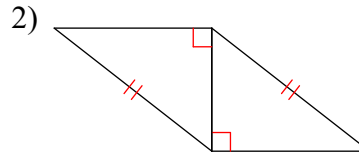
$\triangle FGH \sim$  \_\_\_\_\_

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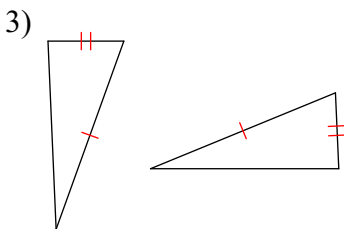
State if the two triangles are congruent. If they are, state how you know.



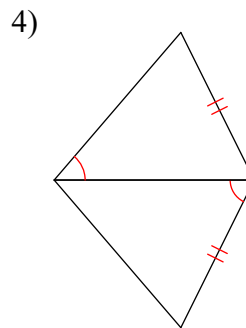
LA



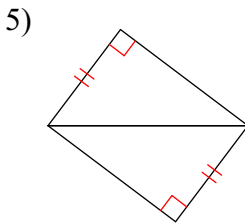
HL



Not congruent

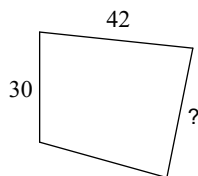
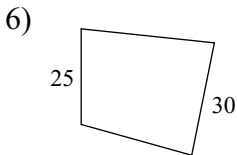


Not congruent



HL

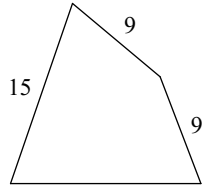
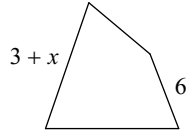
The polygons in each pair are similar. Find the missing side length.



36

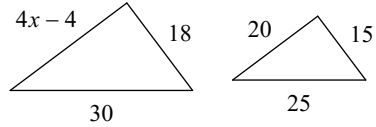
Solve for  $x$ . The polygons in each pair are similar.

7)



7

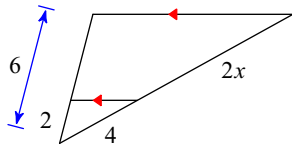
8)



7

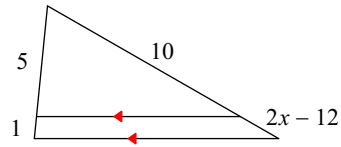
Solve for  $x$ .

9)



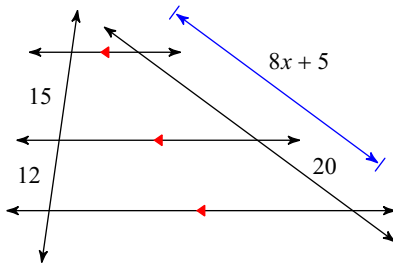
4

10)



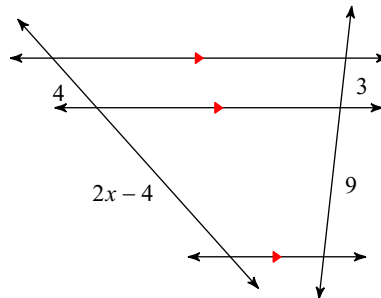
7

11)



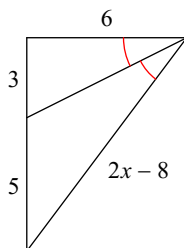
5

12)



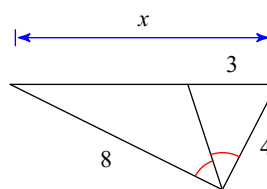
8

13)



9

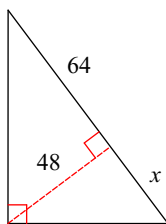
14)



9

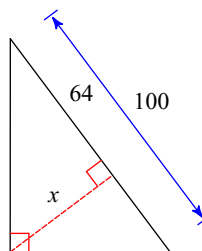
Find the missing length indicated. Leave your answer in simplest radical form.

15)



36

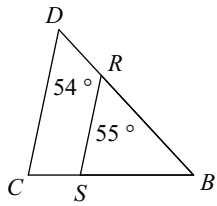
16)



48

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

17)

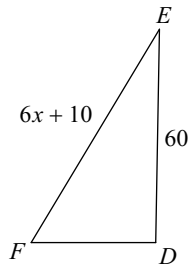
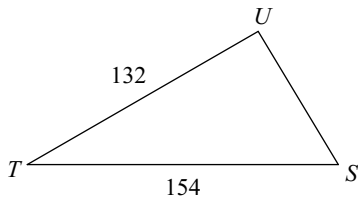


$\triangle BCD \sim$  \_\_\_\_\_

not similar

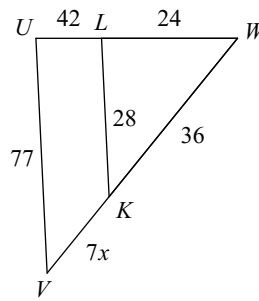
Solve for  $x$ . The triangles in each pair are similar.

18)  $\triangle STU \sim \triangle FED$



10

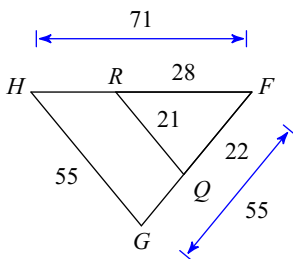
19)



9

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

20)



$\triangle FGH \sim$  \_\_\_\_\_

not similar