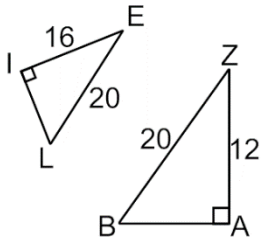
PRACTICE – FLOWCHARTS Name _____

Show all work neatly.

For each pair of triangles, determine if they are similar. If they are similar, make a correct flowchart. If they are not similar, explain why they are not similar (make sure that you show your work).

1.



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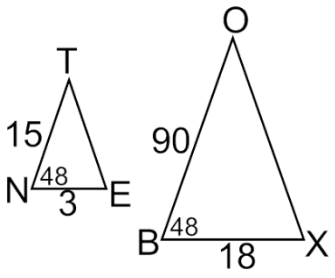

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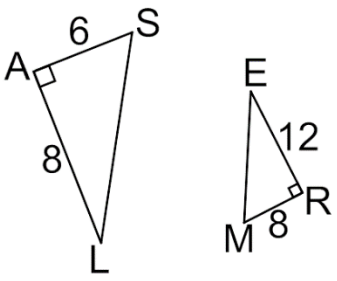

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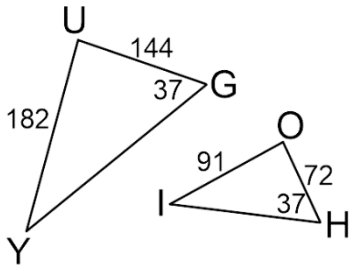

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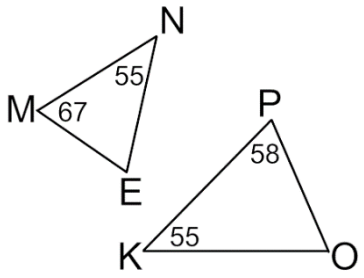
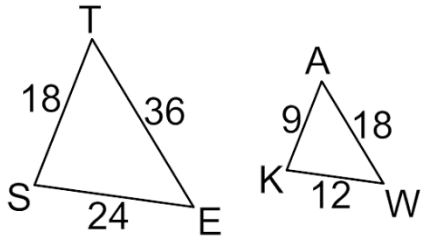
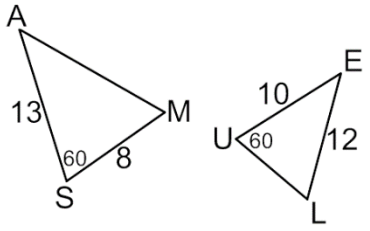

N
55
M
67
E
P
58
55
K
O

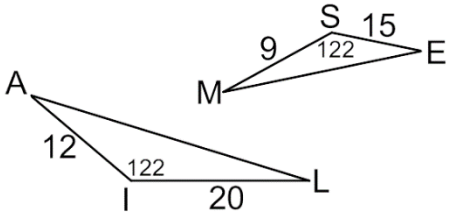
6.


T
18
36
S
24
E
A
9
18
K
12
W

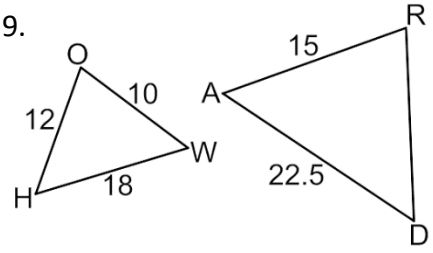
7.


A
13
M
60
8
S
E
10
U
60
12
L

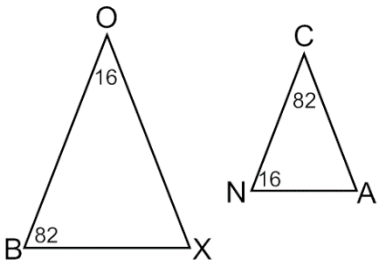
8.


S
15
9
122
E
M
A
12
122
L
I
20

9.


O
10
12
W
H
18
15
R
A
22.5
D

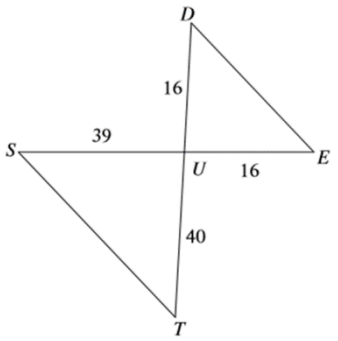
10.


O
16
B
82
X
C
82
N
16
A

PRACTICE – TRIANGLE SIMILARITY **NAME _____**

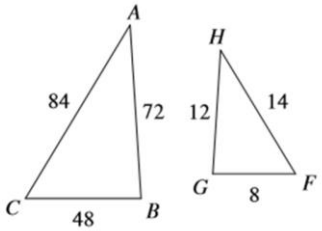
In each question (1-12), the pair of triangles may be similar. Mark any angles that you KNOW to be congruent. If you know the triangles are similar, then correctly complete the similarity statement, and give the reason for the similarity (AA~, SAS~, or SSS~). If they are not, write "not similar" and explain why. Show any work necessary to help justify your choice.

1)



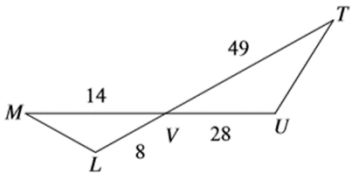
$\Delta UTS \sim$ _____

2)



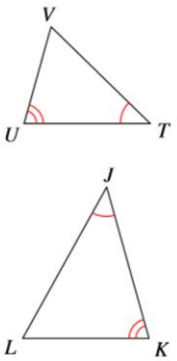
$\Delta CBA \sim$ _____

3)



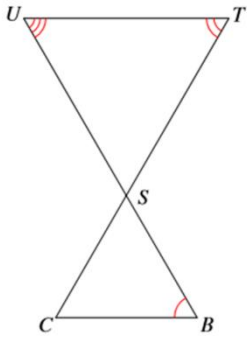
$\Delta VUT \sim$ _____

4)



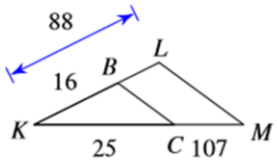
$\Delta JKL \sim$ _____

5)



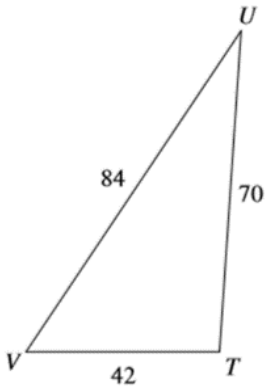
$\Delta STU \sim$ _____

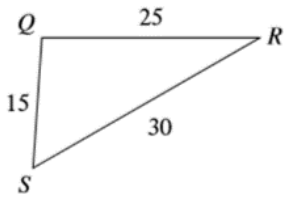
6)



$\Delta KLM \sim$ _____

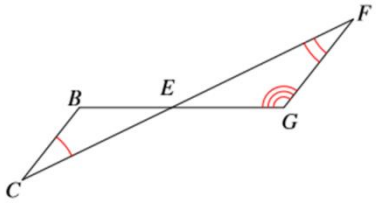
7)





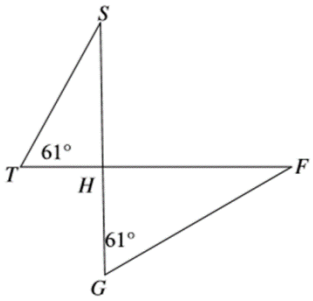
$\Delta TUV \sim$ _____

8)



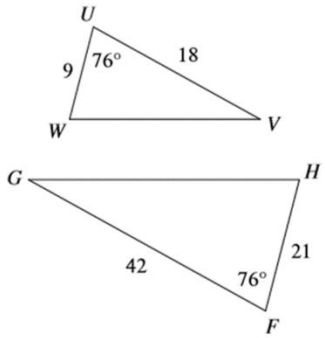
$\Delta EFG \sim$ _____

9)



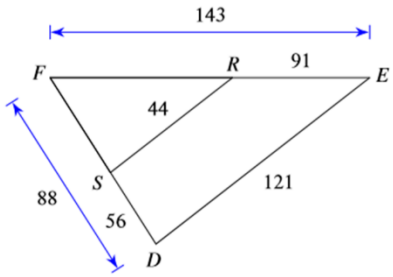
$\Delta HGF \sim$ _____

10)



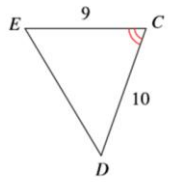
$\Delta FGH \sim$ _____

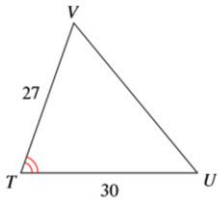
11)



$\Delta FED \sim$ _____

12)

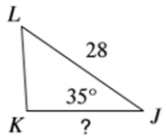


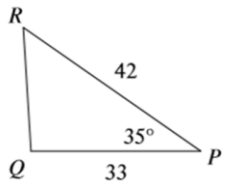


$\Delta TUV \sim$ _____

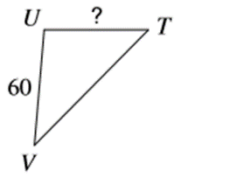
In each question (13-16), the pair of triangles is similar. Write and solve equations to find the missing measurement. Show all work.

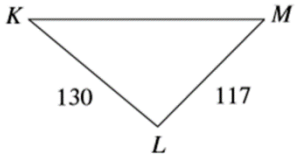
13) $\triangle JKL \sim \triangle PQR$



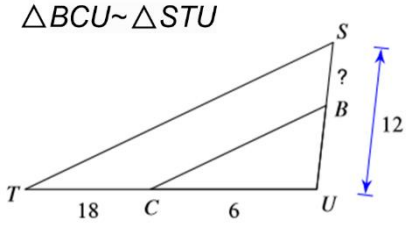


14) $\triangle TUV \sim \triangle MLK$

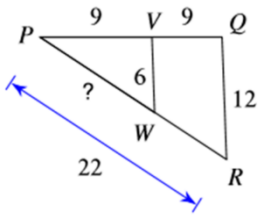




15) $\triangle BCU \sim \triangle STU$

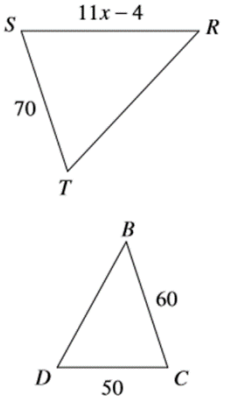


16) $\triangle PVW \sim \triangle PQR$

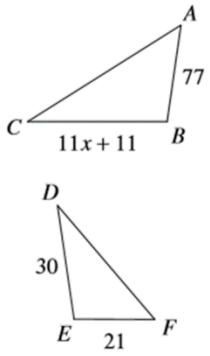


In each question (17-20), the pair of triangles is similar. Write and solve equations to find the value of *x*. Show all work.

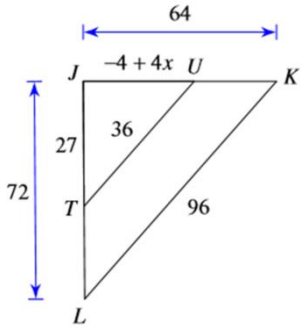
17) $\triangle RST \sim \triangle BCD$



18) $\triangle ABC \sim \triangle FED$



19) $\triangle JTU \sim \triangle JLK$



20) $\triangle UVW \sim \triangle UST$