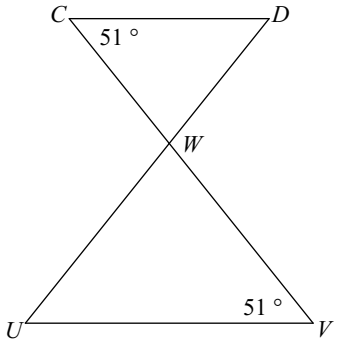
Geometry A Name_____

Similar Triangle Practice

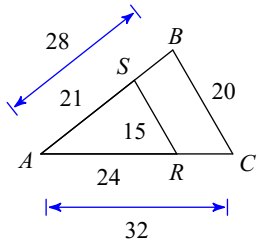
Date_____

State if the triangles in each pair are similar. If so, create a flowchart to show your evidence.

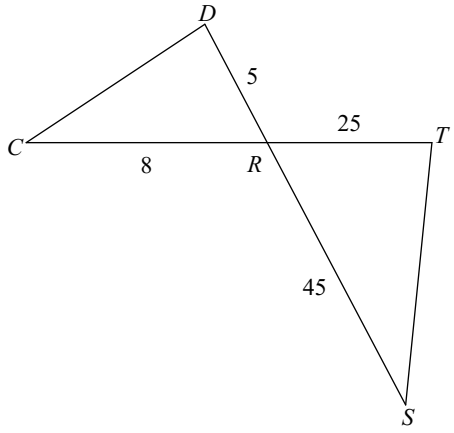
1)



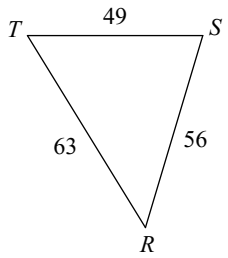
2)

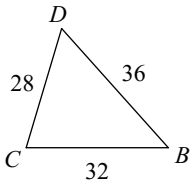


3) $\triangle RST \sim \triangle RCD$

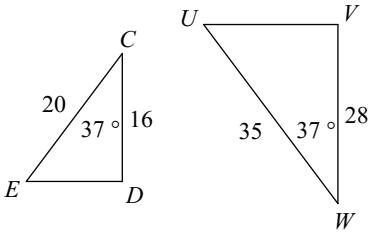


4) $\triangle RST \sim \triangle BCD$

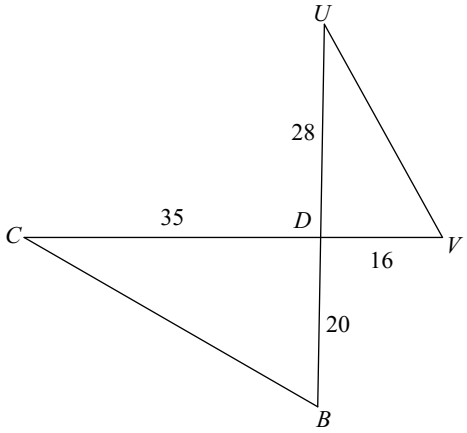




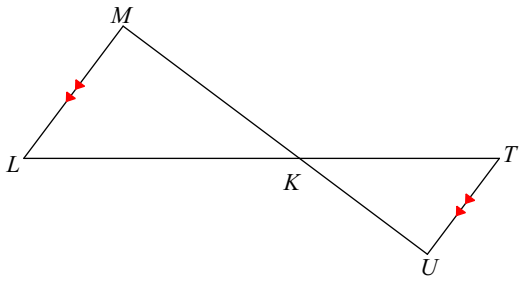
5) $\triangle WVU \sim \triangle CDE$



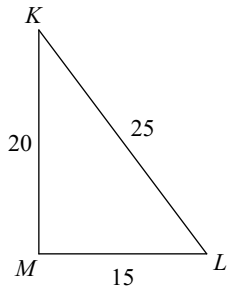
6) $\triangle DCB \sim \triangle DUV$

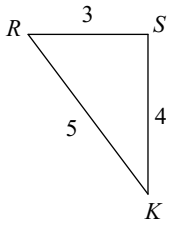


7) $\triangle KLM \sim \triangle KTU$



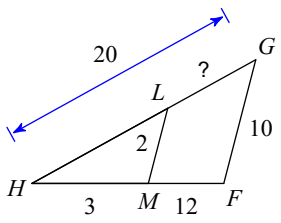
8) $\triangle KLM \sim \triangle KRS$



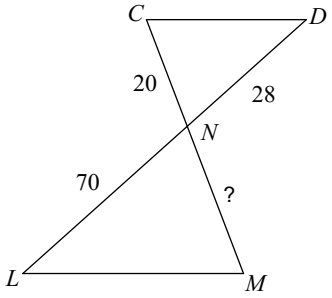


Find the missing length. The triangles in each pair are similar.

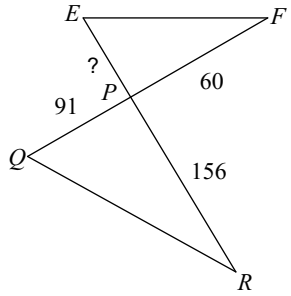
9)



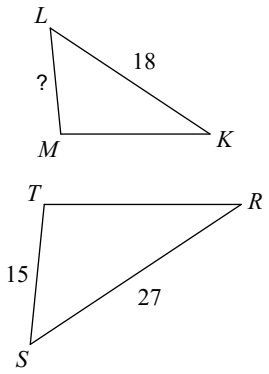
10)



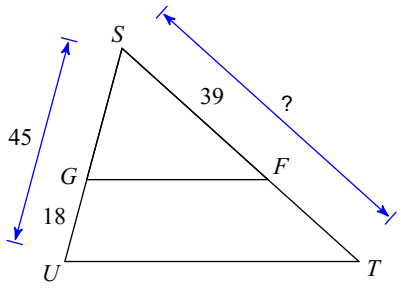
11)



12)

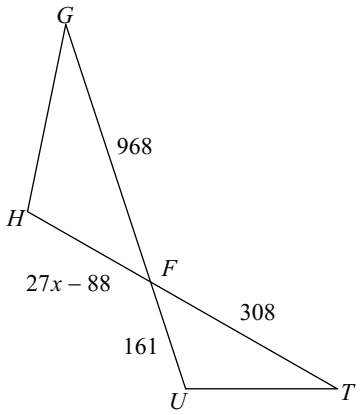


13)

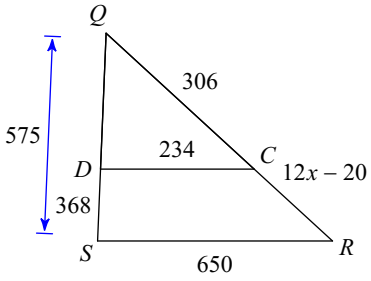


Solve for *x*. The triangles in each pair are similar.

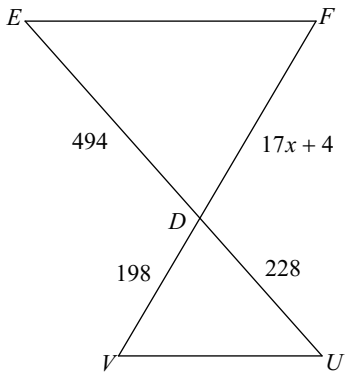
14)



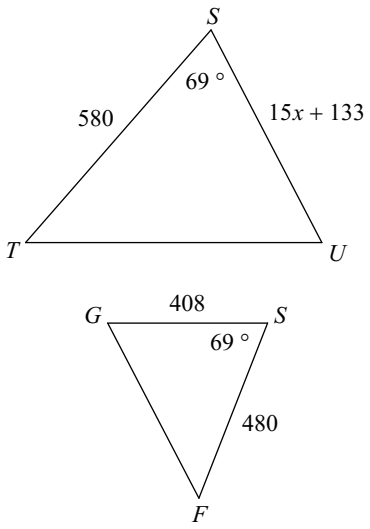
15)



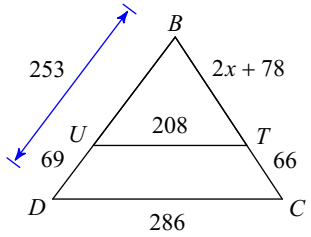
16)



17)



18)



Answers to Similar Triangle Practice

1) similar; AA similarity
2) similar; SSS and SAS similarity
3) not similar
4) similar; SSS similarity
5) similar; SAS similarity
6) similar; SAS similarity
7) similar; AA similarity
8) similar; SSS similarity
9) 16
10) 50
11) 35
12) 10
13) 65
14) 22
15) 47
16) 25
17) 24
18) 49