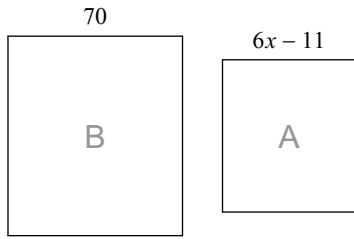


Geometry - Homework 31

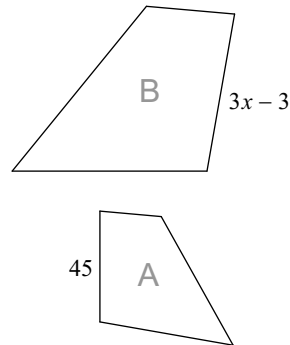
Solve for x . The polygons in each pair are similar.

1)



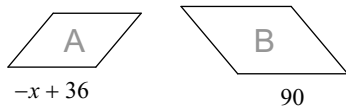
scale factor from A to B = 7 : 10

2)



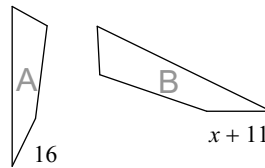
scale factor from A to B = 5 : 6

3)



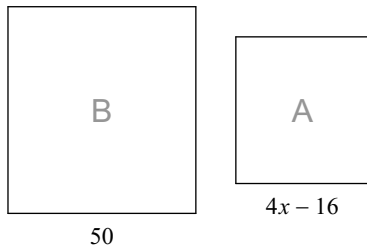
scale factor from A to B = 2 : 9

4)



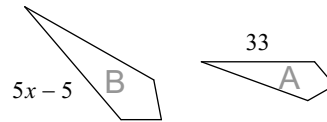
scale factor from A to B = 4 : 7

5)



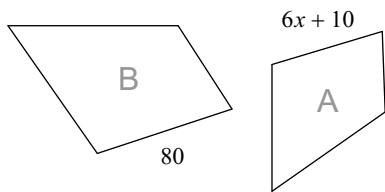
scale factor from A to B = 4 : 5

6)



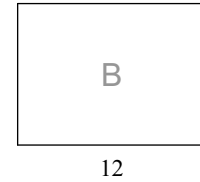
scale factor from A to B = 3 : 5

7)



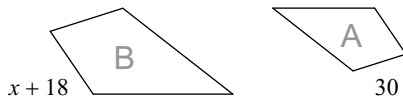
scale factor from A to B = 7 : 8

8)



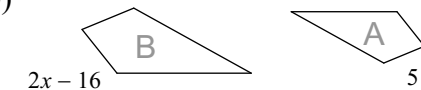
scale factor from A to B = 2 : 3

9)



scale factor from A to B = 5 : 6

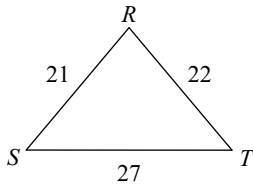
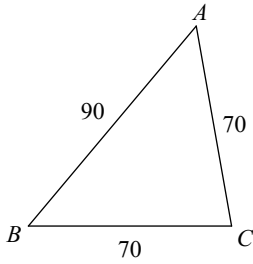
10)



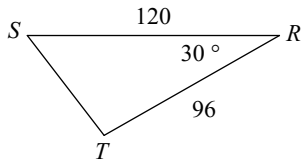
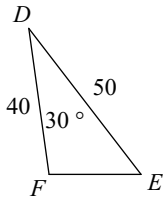
scale factor from A to B = 1 : 2

State if the triangles in each pair are similar.

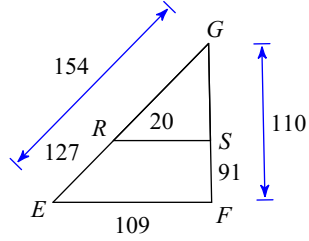
11) $\triangle ABC \sim \triangle TSR$



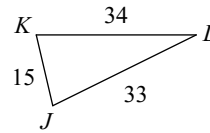
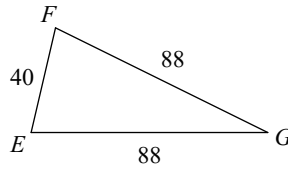
13) $\triangle RST \sim \triangle DEF$



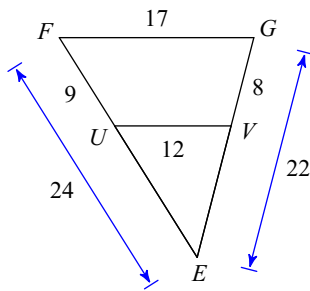
12)



14) $\triangle EFG \sim \triangle JKL$

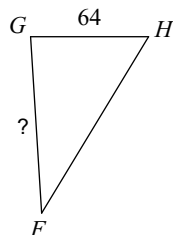
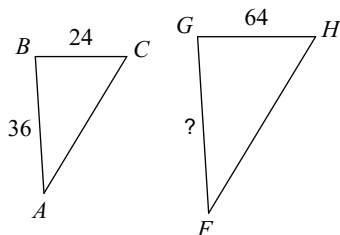


15)

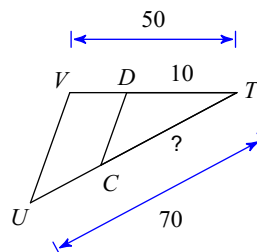


Find the missing length. The triangles in each pair are similar.

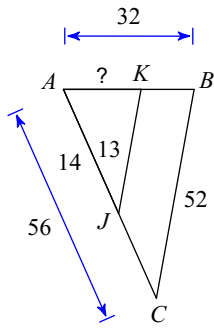
16) $\triangle FGH \sim \triangle ABC$



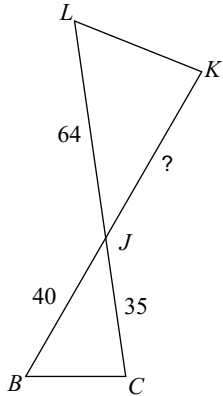
17)



18)

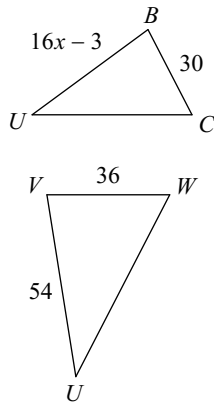


20) $\triangle JKL \sim \triangle JCB$

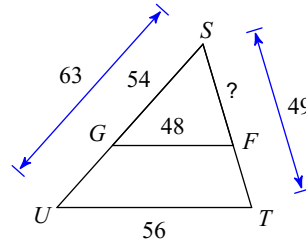


Solve for x. The triangles in each pair are similar.

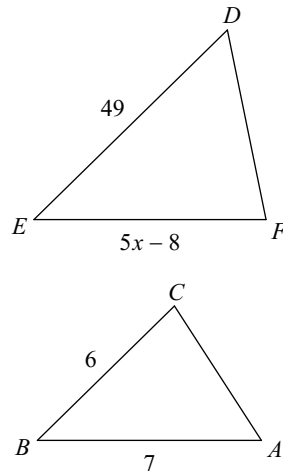
21) $\triangle UVW \sim \triangle UBC$



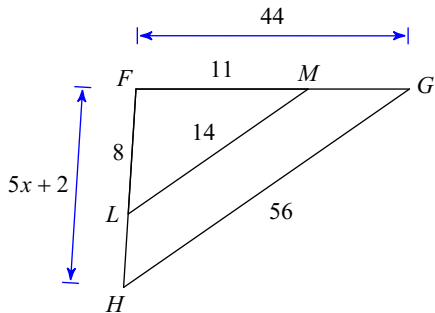
19)



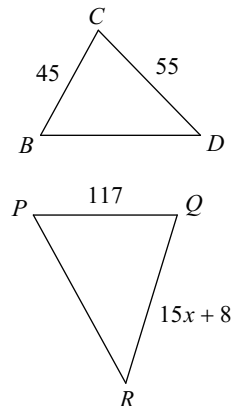
22) $\triangle DEF \sim \triangle ABC$



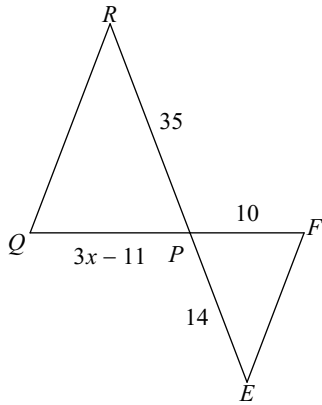
23)



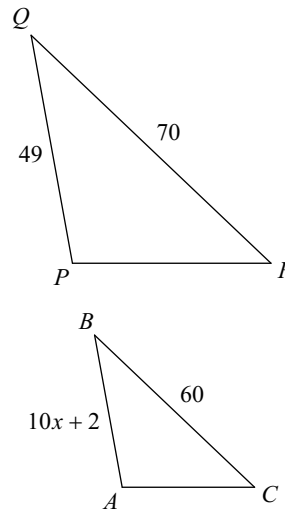
24) $\triangle PQR \sim \triangle BCD$



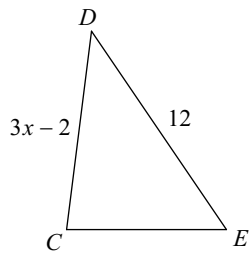
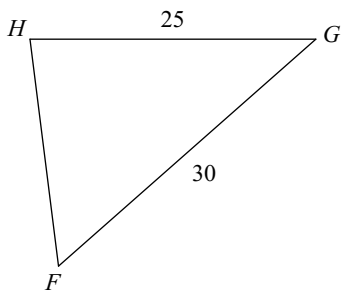
25) $\triangle PQR \sim \triangle PFE$



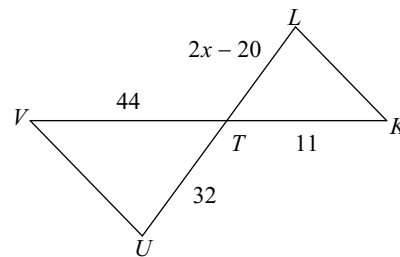
26) $\triangle PQR \sim \triangle ABC$



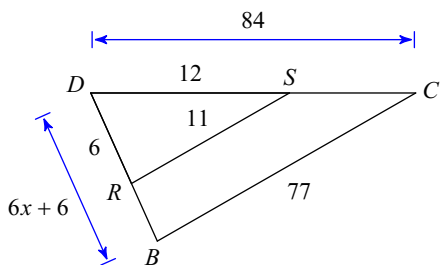
27) $\triangle HGF \sim \triangle CDE$



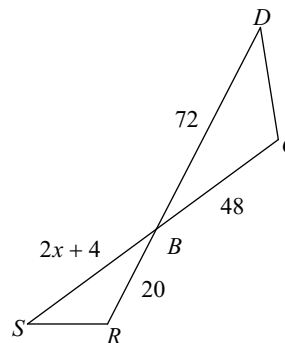
28) $\triangle TUV \sim \triangle TLK$



29)



30) $\triangle BCD \sim \triangle BRS$



Answers to Geometry - Homework 31

1) 10
9) 18
17) 14
25) 12

3) 16
11) not similar
19) 42
27) 4

5) 14
13) similar
21) 3
29) 6

7) 10
15) not similar
23) 6