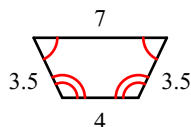
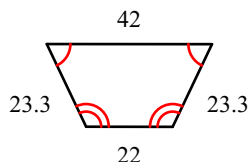


### 3.1 PRACTICE - Scale Factor & Similarity

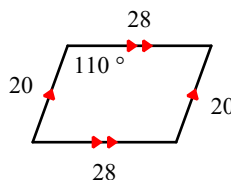
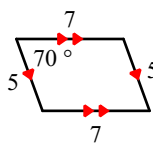
State if the polygons are similar.

1)



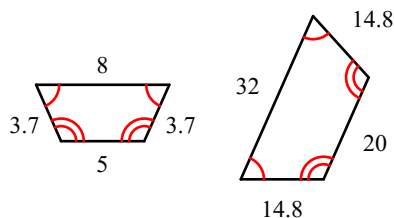
not similar

2)



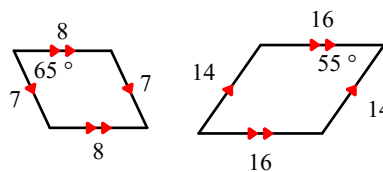
similar

3)



similar

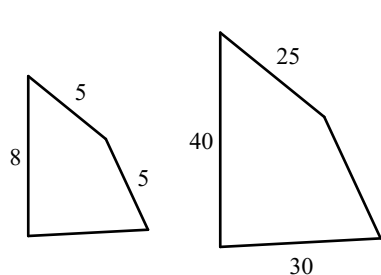
4)



not similar

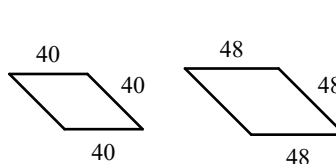
The polygons in each pair are similar. Find the scale factor of the larger to the smaller figure.

5)



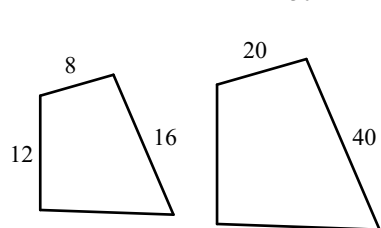
1 : 5

6)



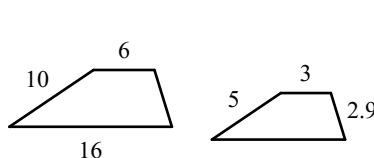
5 : 6

7)



2 : 5

8)

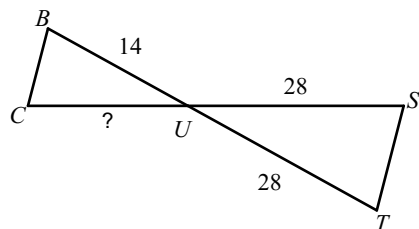


1 : 2

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

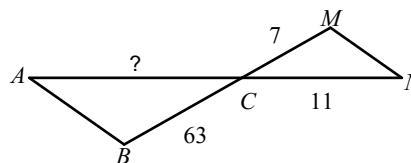
9)  $\triangle UTS \sim \triangle UCB$

14

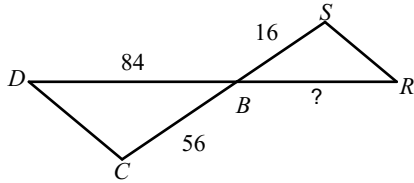


10)  $\triangle CBA \sim \triangle CMN$

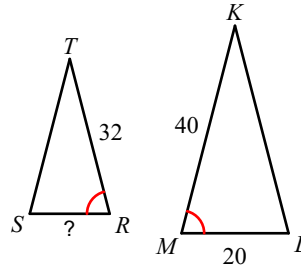
99



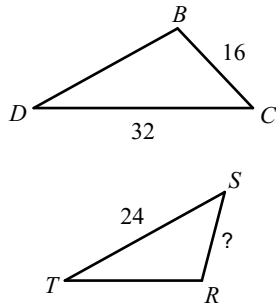
11)  $\triangle BCD \sim \triangle BSR$  24



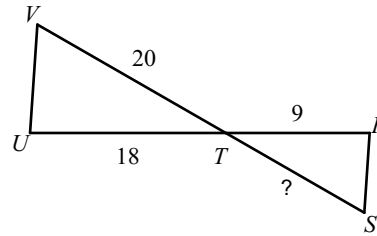
12)  $\triangle MLK \sim \triangle RST$  16



13)  $\triangle DCB \sim \triangle TSR$  12

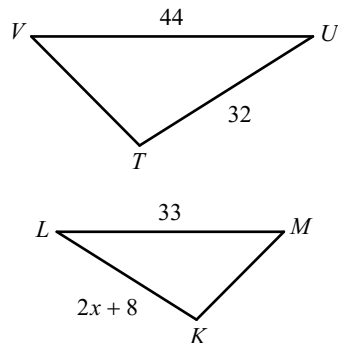


14)  $\triangle TUV \sim \triangle TRS$  10

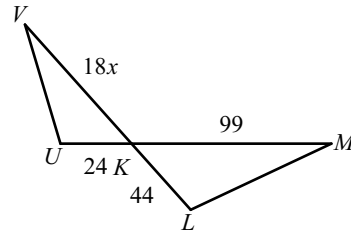


Solve for  $x$ . The triangles in each pair are similar.

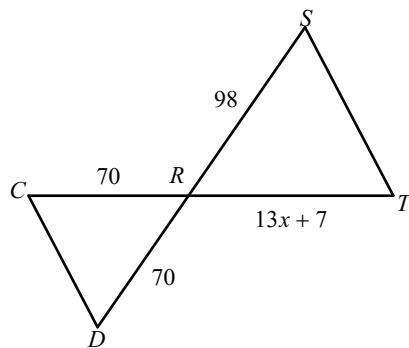
15)  $\triangle TUV \sim \triangle KLM$  8



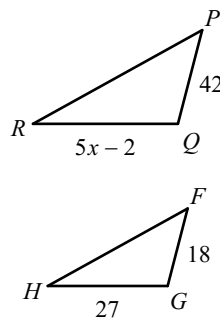
16)  $\triangle KLM \sim \triangle KUV$  3



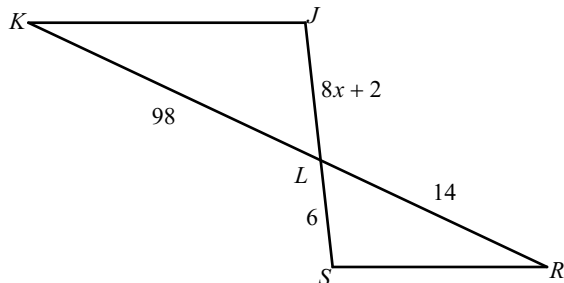
17)  $\triangle RST \sim \triangle RDC$  7



18)  $\triangle PQR \sim \triangle FGH$  13



19)  $\triangle LKJ \sim \triangle LRS$  5



20)  $\triangle JKL \sim \triangle RST$  14

