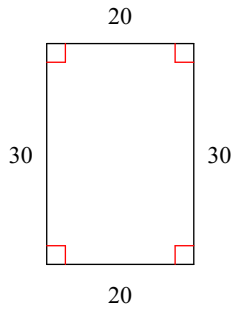
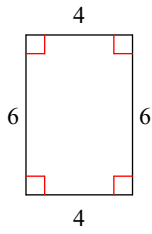


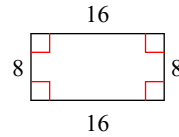
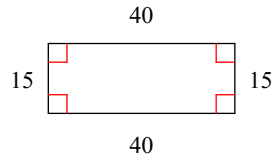
10.2 Similar Polygons

State if the polygons are similar.

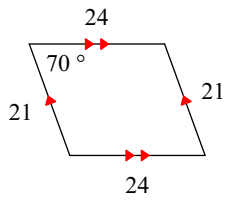
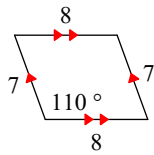
1)



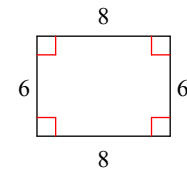
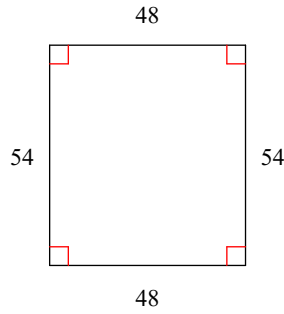
2)



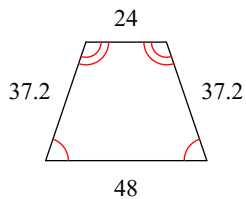
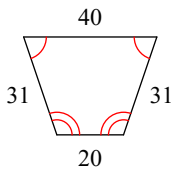
3)



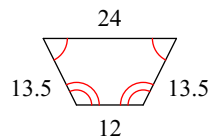
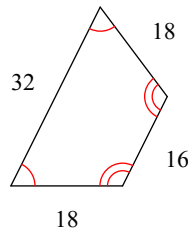
4)



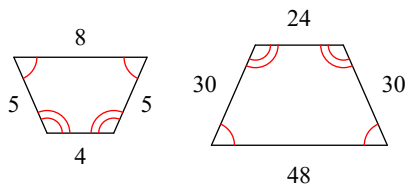
5)



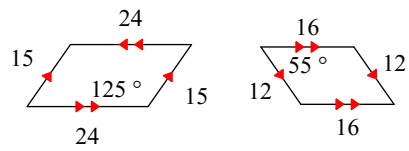
6)



7)

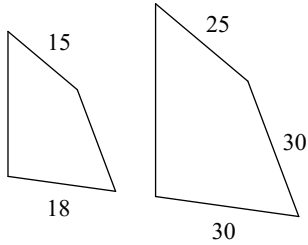


8)

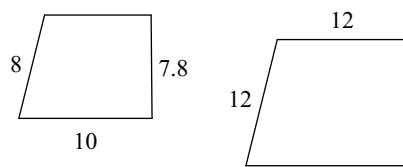


The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.

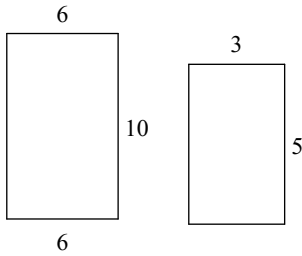
9)



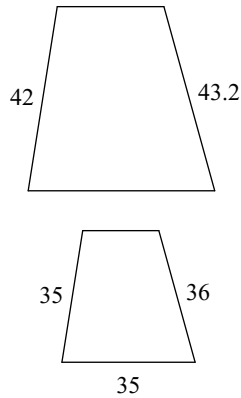
10)



11)

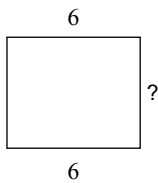


12)

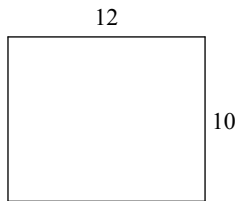
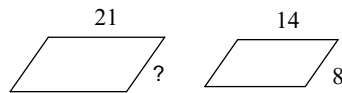


The polygons in each pair are similar. Find the missing side length.

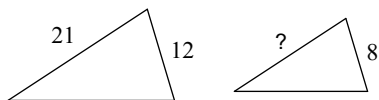
13)



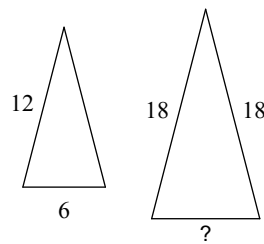
14)



15)



16)



Answers to 10.2 Similar Polygons

1) similar
5) similar
9) 3 : 5
13) 5

2) not similar
6) similar
10) 2 : 3
14) 12

3) similar
7) similar
11) 1 : 2
15) 14

4) not similar
8) not similar
12) 5 : 6
16) 9