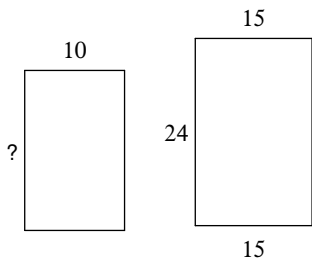


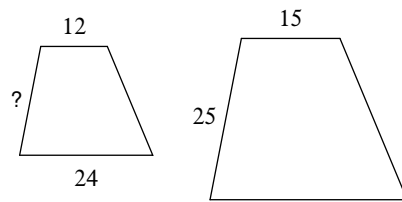
# Using Similar Polygons

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

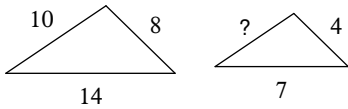
1)



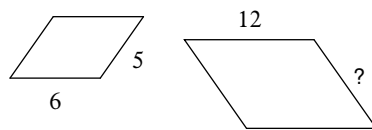
2)



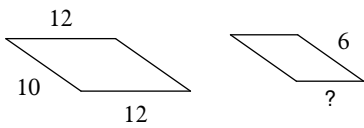
3)



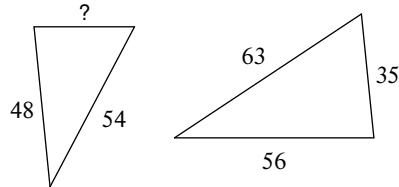
4)



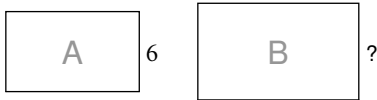
5)



6)

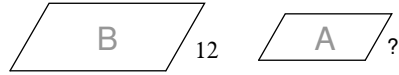


7)



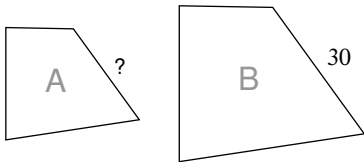
scale factor from A to B = 2 : 7

8)



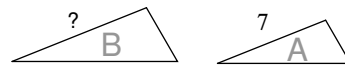
scale factor from A to B = 2 : 3

9)



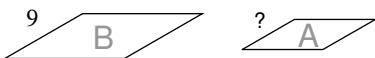
scale factor from A to B = 5 : 6

10)



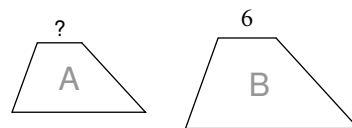
scale factor from A to B = 1 : 7

11)

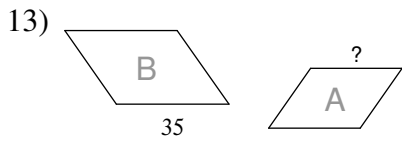


scale factor from A to B = 2 : 3

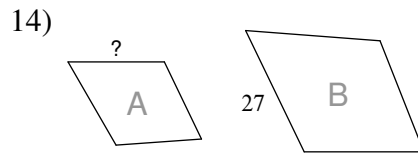
12)



scale factor from A to B = 1 : 2

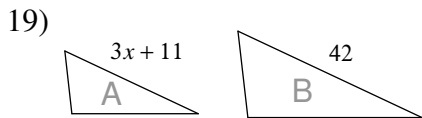
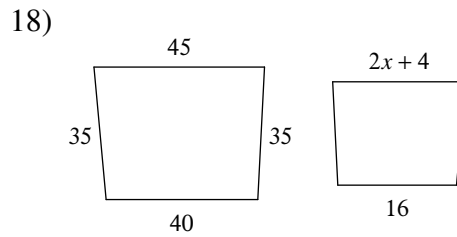
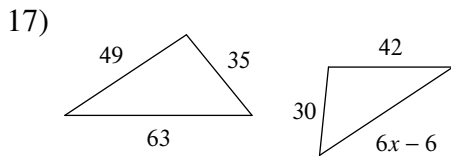
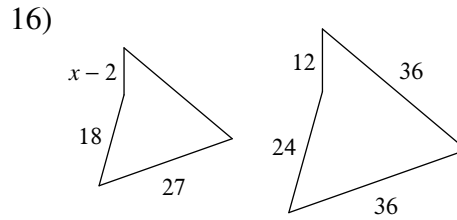
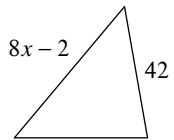
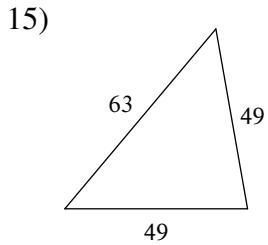


scale factor from A to B = 6 : 7

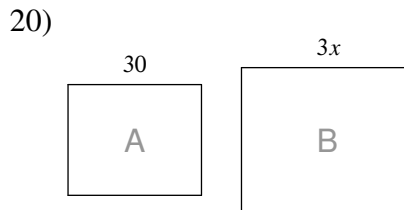


scale factor from A to B = 1 : 3

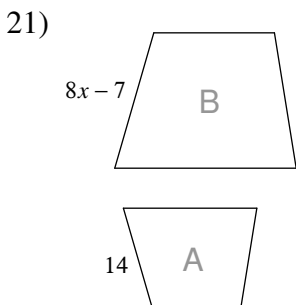
**Solve for  $x$ . The polygons in each pair are similar.**



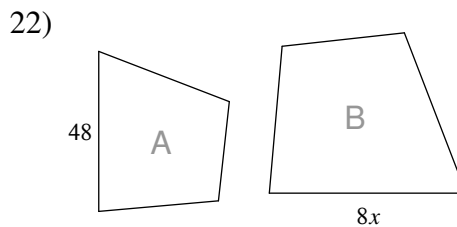
scale factor from A to B = 5 : 6



scale factor from A to B = 5 : 6



scale factor from A to B = 2 : 7

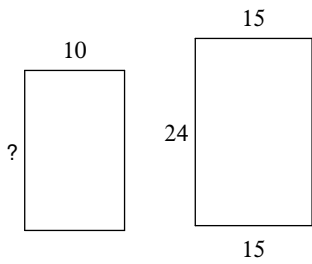


scale factor from A to B = 6 : 7

# Using Similar Polygons

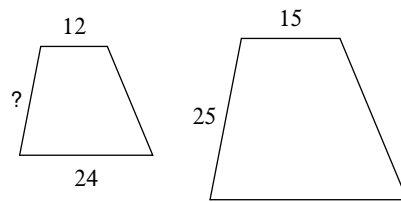
The polygons in each pair are similar. Find the missing side length.

1)



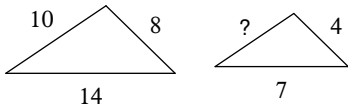
16

2)



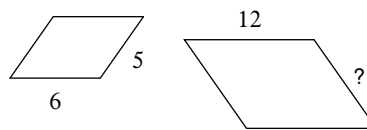
20

3)



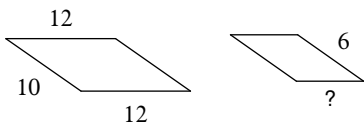
5

4)



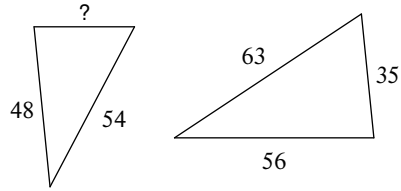
10

5)



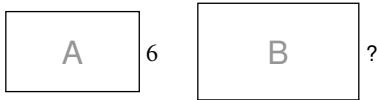
5

6)



30

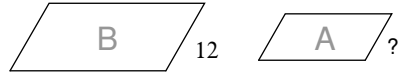
7)



scale factor from A to B = 2 : 7

21

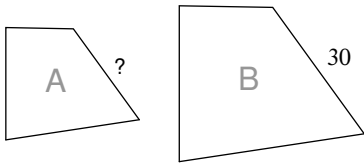
8)



scale factor from A to B = 2 : 3

8

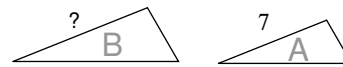
9)



scale factor from A to B = 5 : 6

25

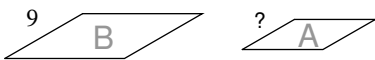
10)



scale factor from A to B = 1 : 7

49

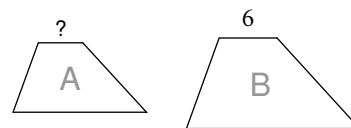
11)



scale factor from A to B = 2 : 3

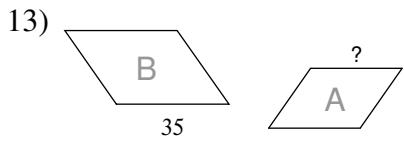
6

12)



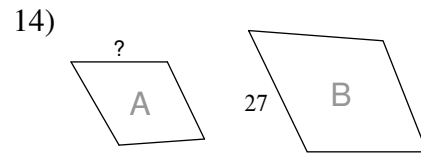
scale factor from A to B = 1 : 2

3



scale factor from A to B = 6 : 7

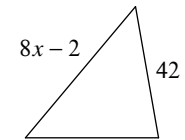
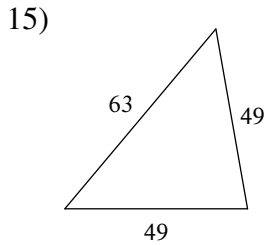
30



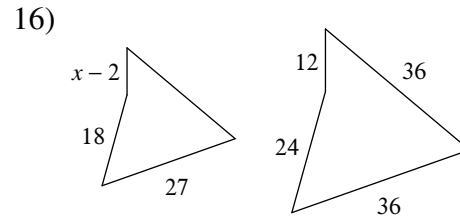
scale factor from A to B = 1 : 3

9

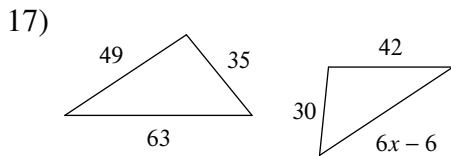
**Solve for  $x$ . The polygons in each pair are similar.**



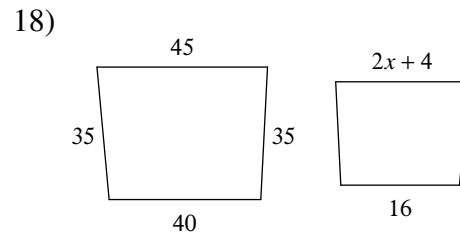
7



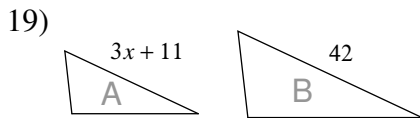
11



10

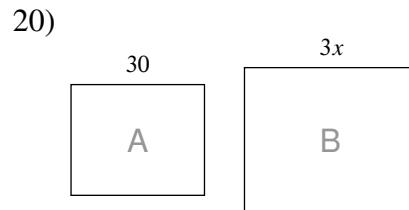


7



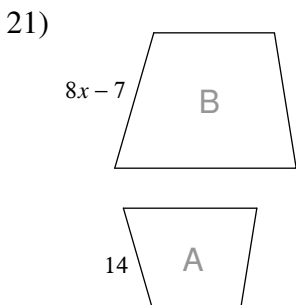
scale factor from A to B = 5 : 6

8



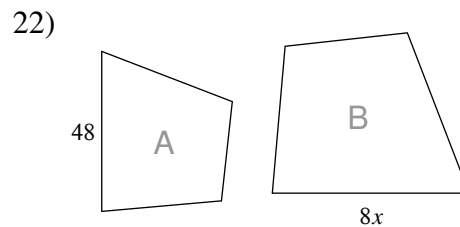
scale factor from A to B = 5 : 6

12



scale factor from A to B = 2 : 7

7



scale factor from A to B = 6 : 7

7