

Geometry - Homework 1 Review - Spring

Solve each proportion.

1) $\frac{n+9}{n-9} = \frac{3}{5}$

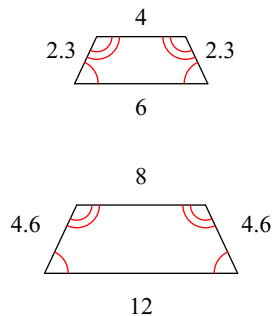
2) $\frac{n-1}{n+2} = \frac{12}{2}$

3) $\frac{9}{m+3} = \frac{3}{m+2}$

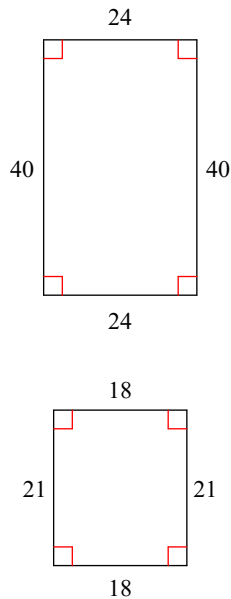
4) $\frac{n+2}{9} = \frac{n-6}{7}$

State if the polygons are similar.

5)

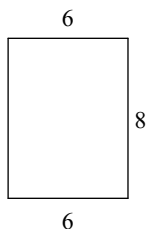
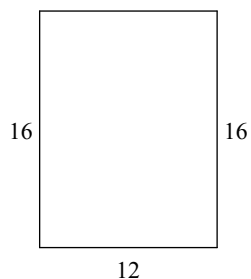


6)

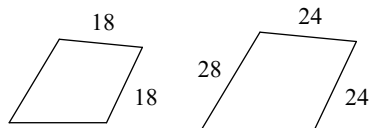


The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.

7)

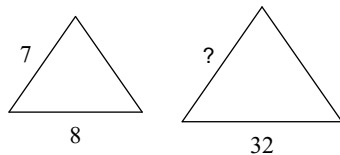


8)

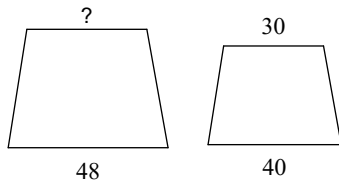


The polygons in each pair are similar. Find the missing side length.

9)

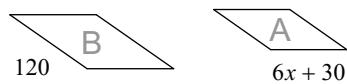


10)



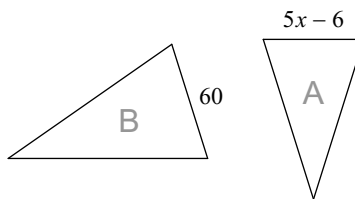
Solve for x . The polygons in each pair are similar.

11)



scale factor from A to B = 9 : 10

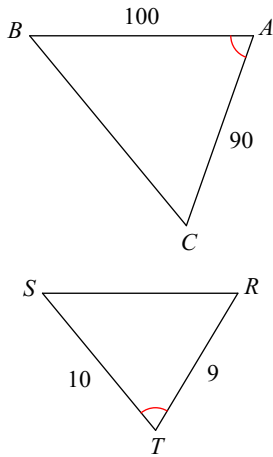
12)



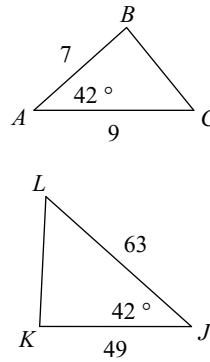
scale factor from A to B = 9 : 10

State if the triangles in each pair are similar.

13) $\triangle ABC \sim \triangle TSR$

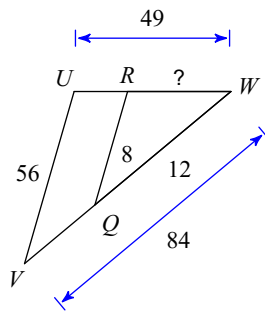


14) $\triangle JKL \sim \triangle ABC$

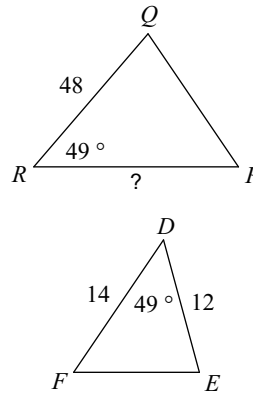


Find the missing length. The triangles in each pair are similar.

15)

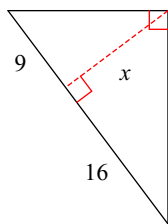


16) $\triangle RQP \sim \triangle DEF$

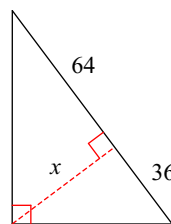


Find the missing length indicated. Leave your answer in simplest radical form.

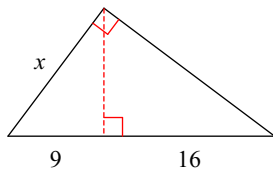
17)



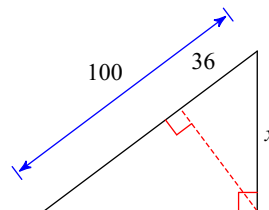
18)



19)



20)



Answers to Geometry - Homework 1 Review - Spring

1) $\{-36\}$
9) 28
17) 12

3) $\{-1.5\}$
11) 13
19) 15

5) similar
13) similar

7) 1 : 2
15) 7