

Geometry - PRACTICE EXAM 1 Spring 2020

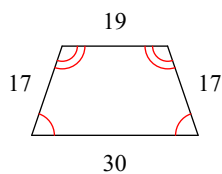
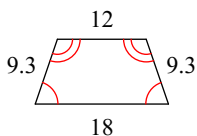
Solve each proportion.

1) $\frac{5}{k} = \frac{8}{6}$

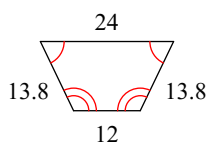
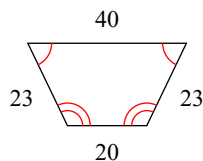
2) $-\frac{7}{8} = \frac{n+8}{n+2}$

State if the polygons are similar.

3)

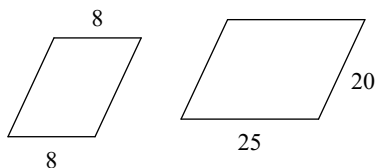


4)

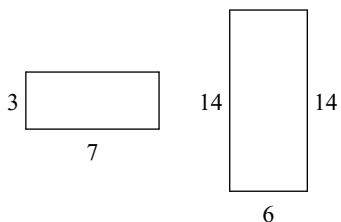


The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.

5)

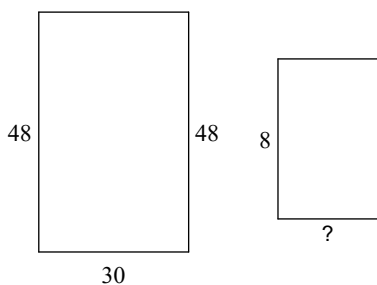


6)

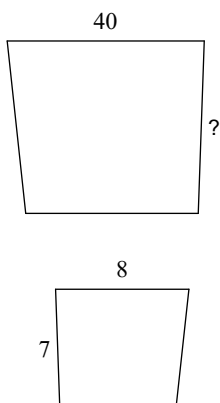


The polygons in each pair are similar. Find the missing side length.

7)

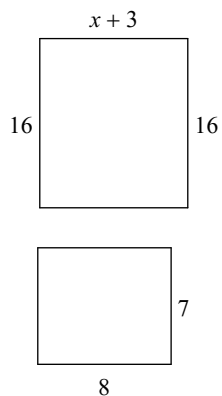


8)

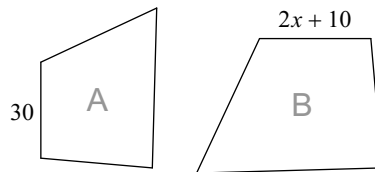


Solve for x . The polygons in each pair are similar.

9)



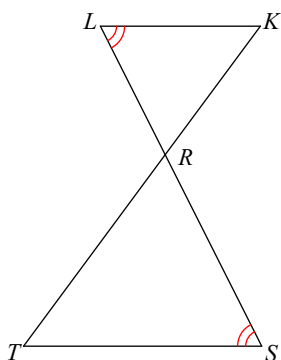
10)



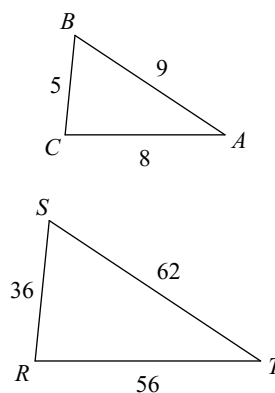
scale factor from A to B = 5 : 7

State if the triangles in each pair are similar.

11)

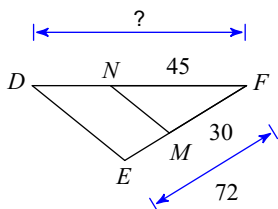


12) $\triangle RST \sim \triangle CBA$

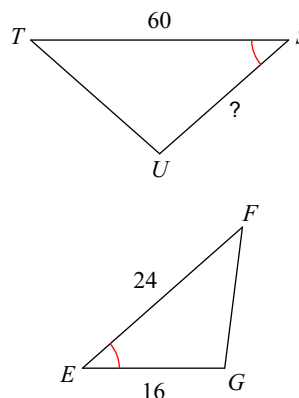


Find the missing length. The triangles in each pair are similar.

13)

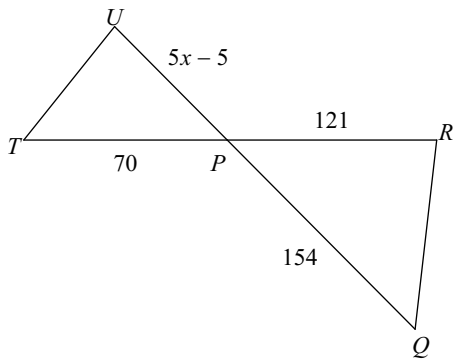


14) $\triangle STU \sim \triangle EFG$



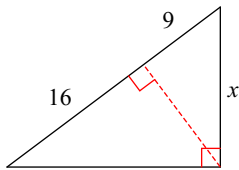
Solve for x . The triangles in each pair are similar.

15) $\triangle PQR \sim \triangle PTU$

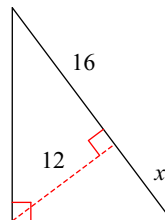


Find the missing length indicated. Leave your answer in simplest radical form.

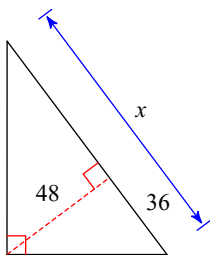
16)



17)

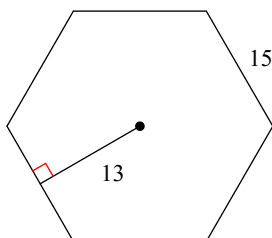


18)

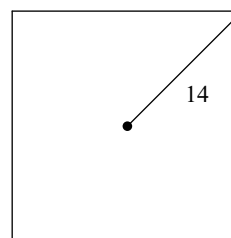


Find the area of each regular polygon. Round your answer to the nearest tenth if necessary.

19)



20)



Answers to Geometry - PRACTICE EXAM 1 Spring 2020

- | | | | |
|---------------|---------------|----------------|-----------------|
| 1) $\{3.75\}$ | 2) $\{-5.2\}$ | 3) not similar | 4) similar |
| 5) $2 : 5$ | 6) $1 : 2$ | 7) 5 | 8) 35 |
| 9) 11 | 10) 16 | 11) similar | 12) not similar |
| 13) 108 | 14) 40 | 15) 12 | 16) 15 |
| 17) 9 | 18) 100 | 19) 585 | 20) 392 |