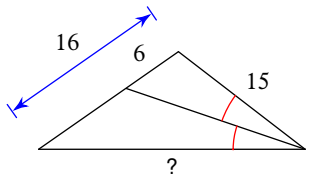
Geometry Name_____

WS: 7.1-7.4 Review

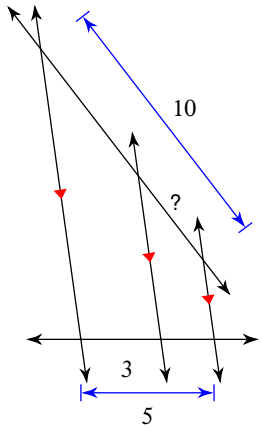
Date_____ Period____ Assign#_____

Find the missing length indicated.

1)

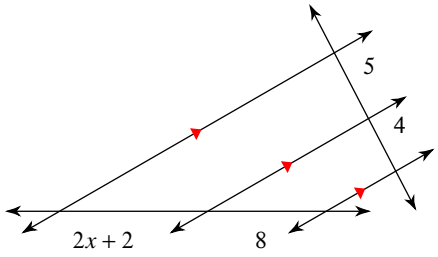


2)

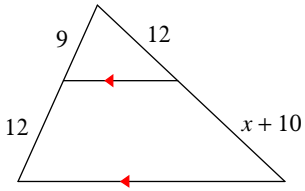


Solve for *x*.

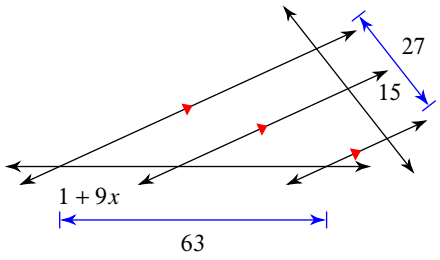
3)



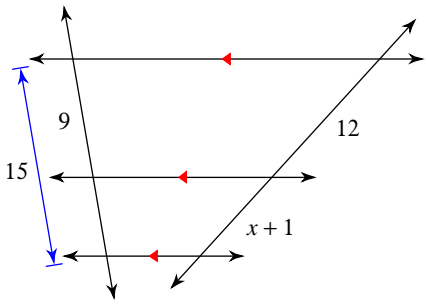
4)



5)



6)



Solve each proportion.

7) $\frac{4}{9} = \frac{3}{n}$

8) $\frac{7}{x} = \frac{2}{5}$

9) $\frac{5}{6} = \frac{8}{m+7}$

10) $\frac{9}{3} = \frac{2}{r-4}$

11) $\frac{x}{x-5} = \frac{7}{9}$

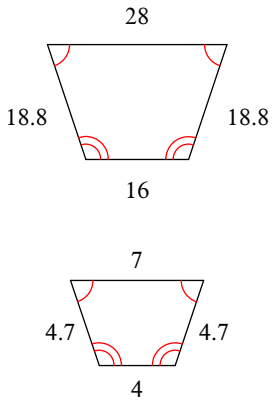
12) $\frac{2}{4} = \frac{n}{n+1}$

13) $\frac{7}{b-2} = \frac{9}{b-6}$

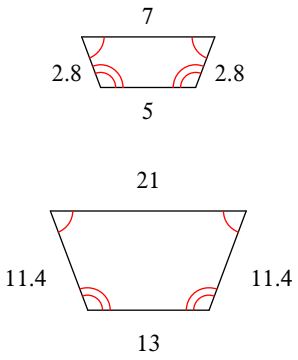
14) $\frac{v+6}{8} = \frac{v-6}{5}$

State if the polygons are similar.

15)

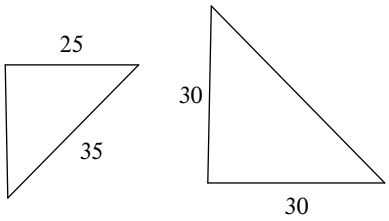


16)

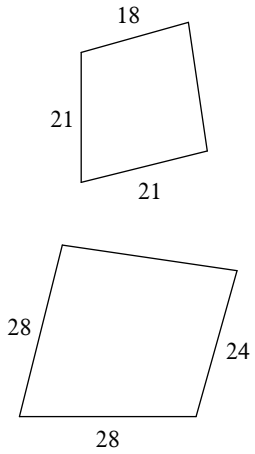


The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.

17)

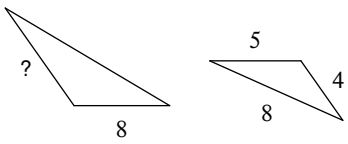


18)

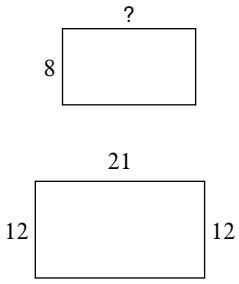


The polygons in each pair are similar. Find the missing side length.

19)

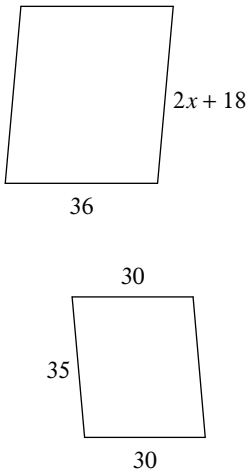


20)

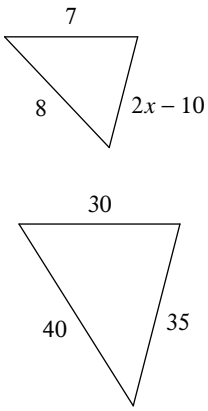


Solve for *x*. The polygons in each pair are similar.

21)

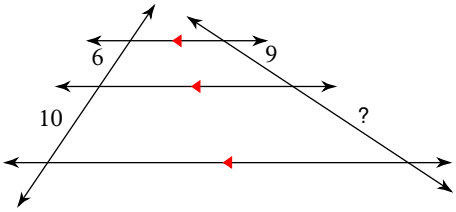


22)

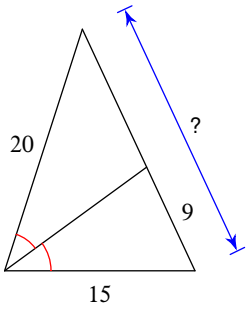


Find the missing length indicated.

23)

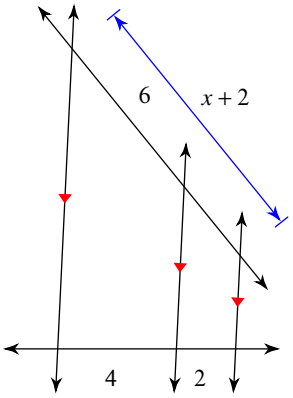


24)

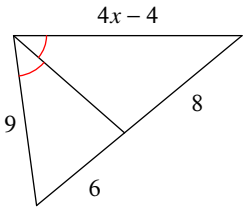


Solve for *x*.

25)

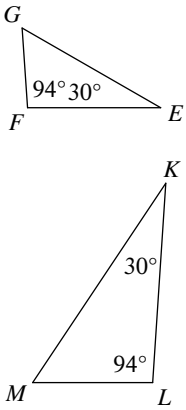


26)



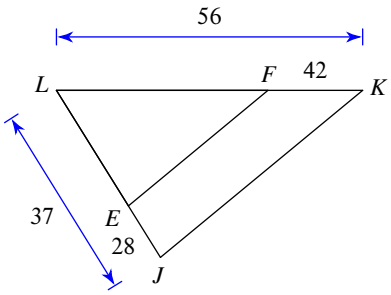
State if the triangles in each pair are similar. If so, complete the similarity statement.

27)



$\Delta KLM \sim$ _____

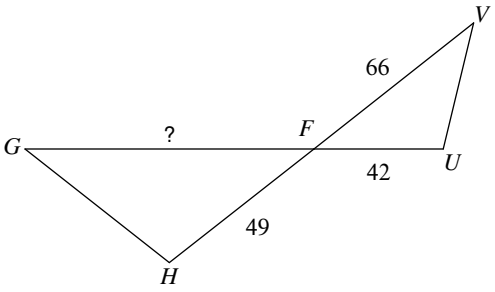
28)



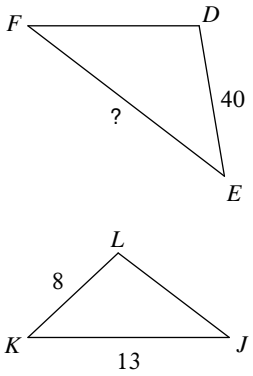
$\Delta LKJ \sim$ _____

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

29)

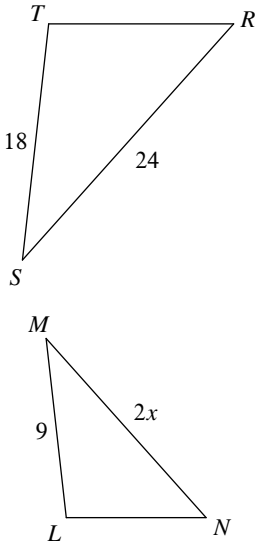


30)

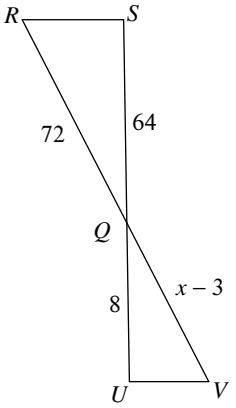


Solve for *x*. The triangles in each pair are similar.

31)



32)



Answers to WS: 7.1-7.4 Review (ID: 1)

1) 25
2) 4
3) 4
4) 6
5) 3
6) 7
7) {6.75}
8) {17.5}
9) {2.6}
10) {4.66}
11) {−17.5}
12) {1}
13) {−12}
14) {26}
15) similar
16) not similar
17) 5 : 6
18) 3 : 4
19) 10
20) 14
21) 12
22) 8
23) 15
24) 21
25) 7
26) 4
27) similar; ΔEFG
28) not similar
29) 77
30) 65
31) 6
32) 12