

Solve each proportion.

1) $\frac{8}{5} = \frac{k}{7}$

- A) {6} B) {2}
 C) {3} D) $\left\{\frac{56}{5}\right\}$

2) $\frac{r}{8} = \frac{4}{9}$

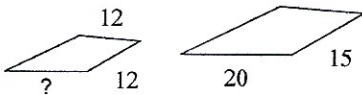
3) $\frac{r+1}{8} = \frac{7}{9}$

- A) {5.22} B) {-1.7}
 C) {7.1} D) {7}

4) $\frac{9}{5} = \frac{a+5}{7}$

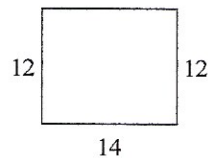
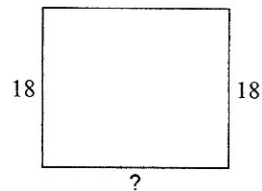
The polygons in each pair are similar. Find the missing side length.

5)



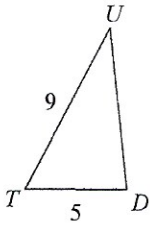
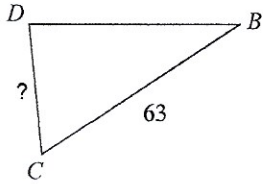
- A) 16 B) 27
 C) 20 D) 12

6)



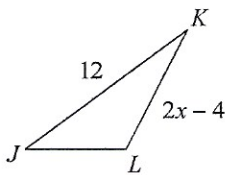
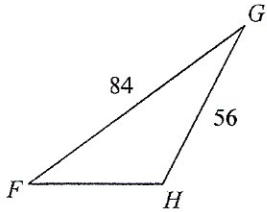
Find the missing length. The triangles in this pair are similar.

7) $\triangle DCB \sim \triangle DTU$



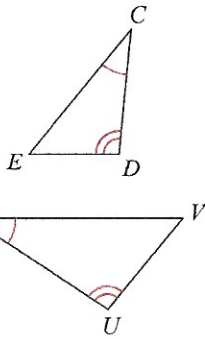
Solve for x . The triangles in this pair are similar.

8) $\triangle FGH \sim \triangle JKL$



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

9)

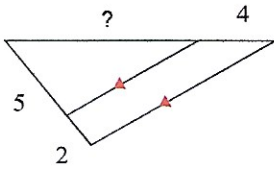


$\triangle TUV \sim$ _____

- A) similar; $\triangle ECD$
- B) not similar
- C) similar; $\triangle DCE$
- D) similar; $\triangle CDE$

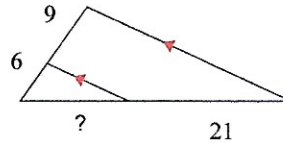
Find the missing length indicated.

10)



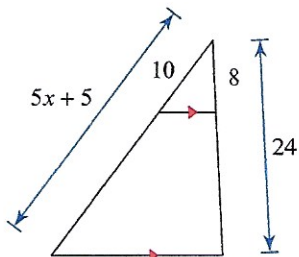
- A) 10
- B) 7
- C) 12
- D) 15

11)



Solve for x .

12)



- A) 6
- B) 5
- C) 3
- D) 8

13)

