

Proportions and Similarity

Solve each proportion.

1)  $\frac{9}{p} = \frac{5}{3}$

2)  $\frac{5}{3} = \frac{6}{p}$

3)  $\frac{10}{4} = \frac{n}{10}$

4)  $\frac{10}{7} = \frac{x}{8}$

5)  $\frac{5}{3} = \frac{x+10}{10}$

6)  $\frac{3}{9} = \frac{p-10}{6}$

7)  $\frac{9}{n-4} = \frac{8}{10}$

8)  $\frac{4}{3} = \frac{m+10}{7}$

9)  $\frac{x+7}{x} = \frac{10}{6}$

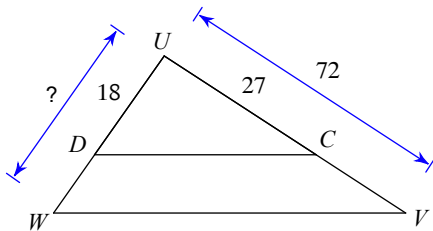
10)  $\frac{2}{5} = \frac{x+5}{7x}$

11)  $\frac{m}{m+2} = \frac{8}{2}$

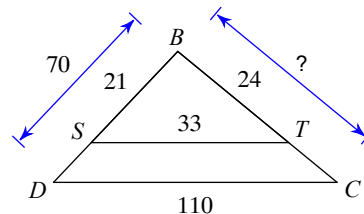
12)  $\frac{n}{5} = \frac{n-8}{3}$

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

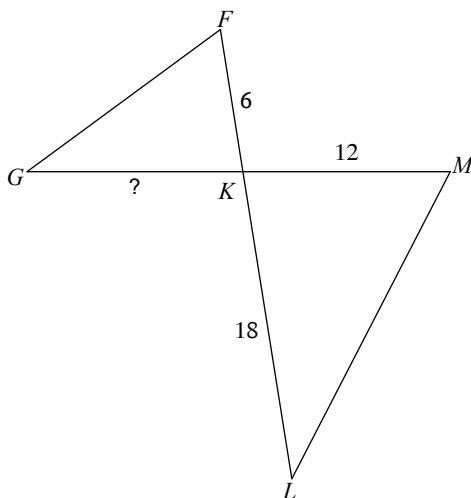
13)



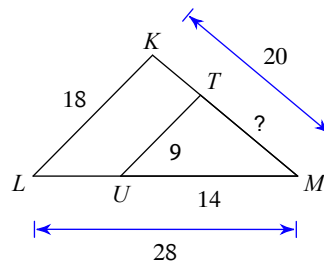
14)



15)  $\triangle KLM \sim \triangle KGF$

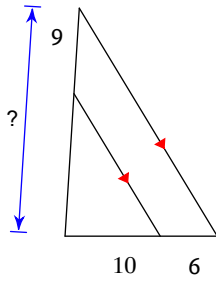


16)



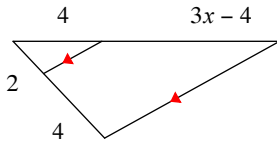
Find the missing length indicated.

17)



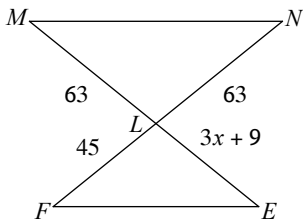
Solve for  $x$ .

18)

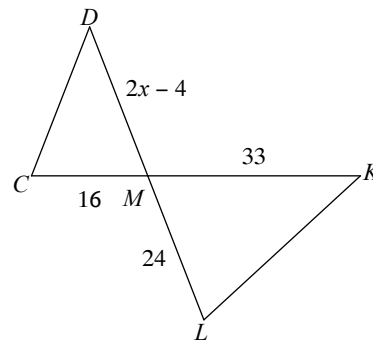


Solve for  $x$ . The triangles in each pair are similar.

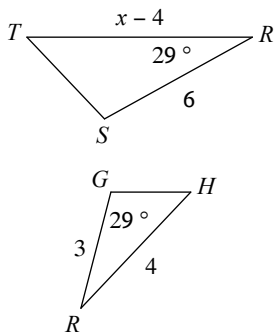
19)  $\triangle LMN \sim \triangle LEF$



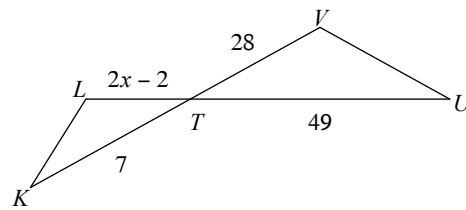
20)  $\triangle MLK \sim \triangle MCD$



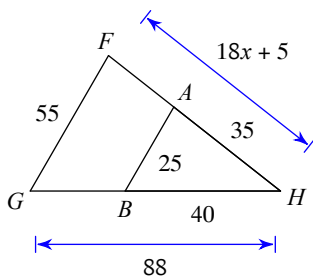
21)  $\triangle RST \sim \triangle RGH$



22)  $\triangle TUV \sim \triangle TKL$



23)



24)  $\triangle PQR \sim \triangle PVW$

