

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

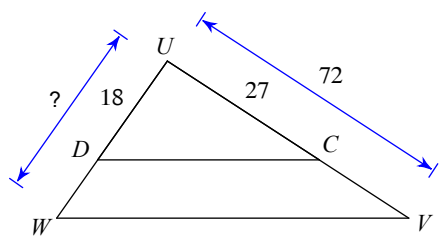
10) $\frac{2}{5} = \frac{x+5}{7x}$

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

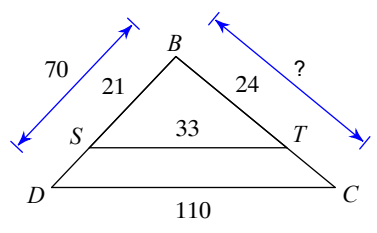
12) $\frac{n}{5} = \frac{n-8}{3}$

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

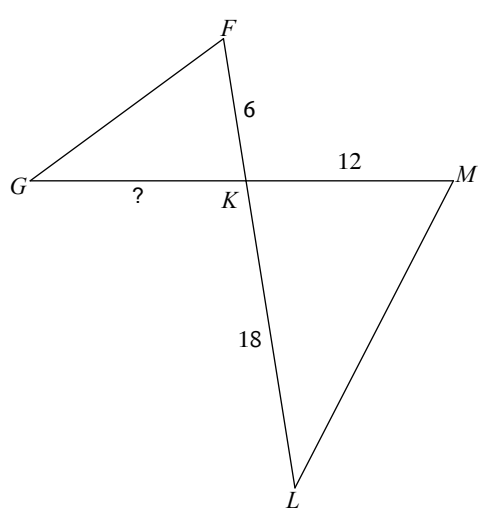
13)



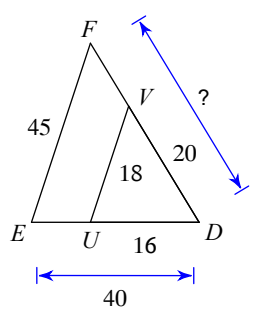
14)



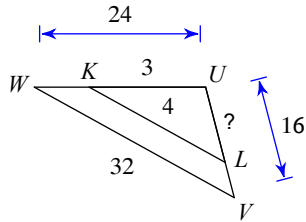
15) $\triangle KLM \sim \triangle KGF$



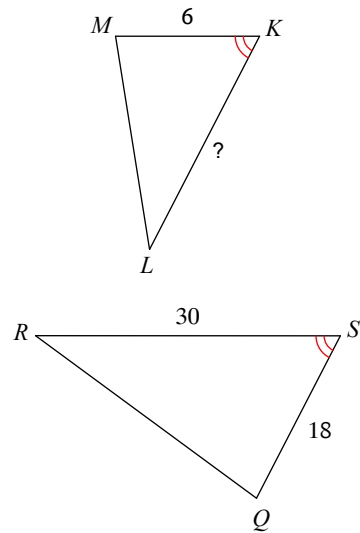
16)



17)

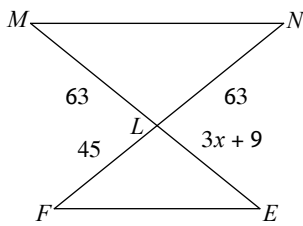


18) $\triangle SRQ \sim \triangle KLM$

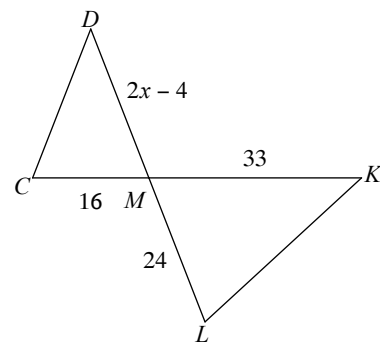


Solve for x . The triangles in each pair are similar.

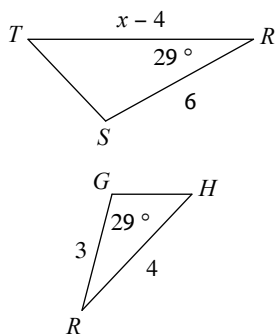
19) $\triangle LMN \sim \triangle LEF$



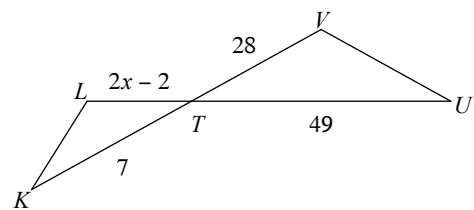
20) $\triangle MLK \sim \triangle MCD$



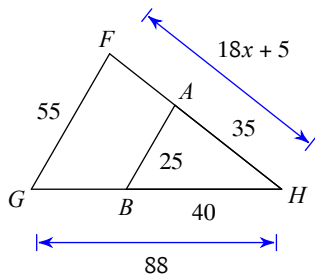
21) $\triangle RST \sim \triangle RGH$



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



23)



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

