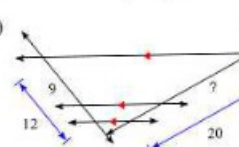
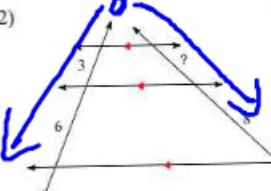
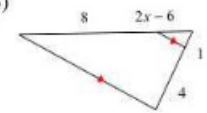


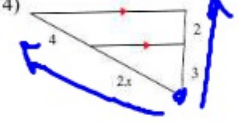
Find the missing length indicated.

1)    
 ~~$\frac{9}{12} = \frac{9}{x}$~~   
 $\frac{12}{12} = \frac{20}{x}$   
 $120 = 12x$   
 $\frac{120}{12} = \frac{120}{12}$   
 $x = 10$

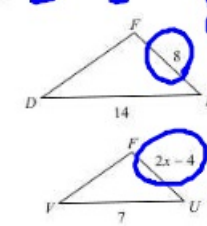
2)    
 ~~$\frac{3}{6} = \frac{x}{8}$~~   
 $\frac{24}{6} = \frac{24}{4}$   
 $4 = 4$

Solve for x.

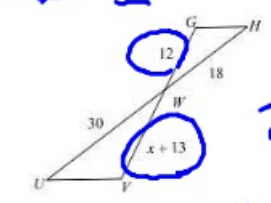
3)    
 $\frac{2x-6}{4} = \frac{1}{4}$   
 $2x-6 = 1$   
 $2x = 7$   
 $x = 3.5$

4)    
 $\frac{2x}{3} = \frac{2}{3}$   
 $2x = 2$   
 $x = 1$

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

5)  $\triangle FED \sim \triangle FUV$   
   
 $\frac{8}{14} = \frac{2x-4}{7}$   
 $8x - 24 = 8$   
 $+24 \quad +24$   
 $8x = 32$   
 $\frac{8x}{8} = \frac{32}{8}$   
 $x = 4$

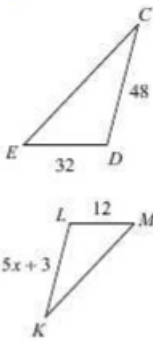
6)  $\triangle QRS \sim \triangle QLM$   
   
 $\frac{21}{12} = \frac{5x-5}{20}$   
 $4x = 1$   
 $x = 3$

7)  $\triangle WVU \sim \triangle WGH$   
   
 $\frac{30}{18} = \frac{x+13}{18}$   
 $28x - 56 = 56$   
 $+56 \quad +56$   
 $28x = 112$   
 $\frac{28x}{28} = \frac{112}{28}$   
 $x = 4$

look @ let to see which match  
 $\frac{5x-5}{21} = \frac{20}{12}$   
 $60x - 60 = 420$   
 $+60 \quad +60$   
 $60x = 480$   
 $\frac{60x}{60} = \frac{480}{60}$   
 $x = 8$

~~$\frac{x+13}{12} = \frac{30}{18}$~~   
 $18x + 234 = 360$   
 $-234 \quad -234$   
 $\frac{18x}{18} = \frac{126}{18}$   
 $x = 7$

8)  $\triangle CDE \sim \triangle KLM$



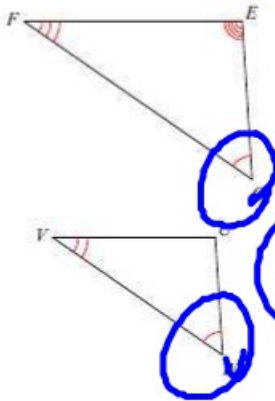
$$\frac{5x+3}{48} = \frac{12}{32}$$

$$\begin{aligned} 160x + 96 &= 576 \\ -96 &-96 \\ \hline 160x &= 480 \\ \frac{160x}{160} &= \frac{480}{160} \\ x &= 3 \end{aligned}$$

$x=3$

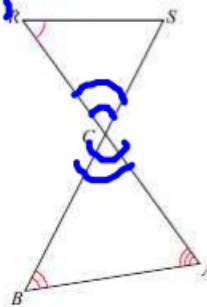
State if the triangles in each pair are similar. If so, state how you know they are similar.

9)  $\triangle GFE \sim \triangle WVU$



need 2 pair of matches

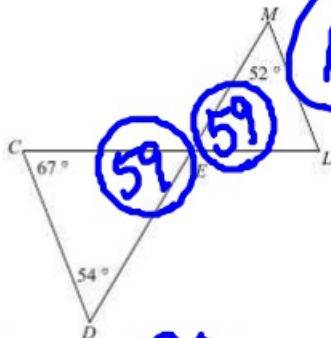
Not  $\sim$



need 2 matches

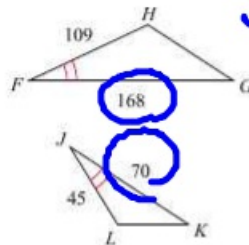
Not  $\sim$

11)  $\triangle EDC \sim \triangle EML$



Not  $\sim$

12)  $\triangle FGH \sim \triangle JKL$

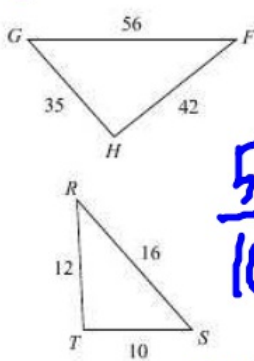


Sides proportional

$$\begin{aligned} 167 &+ 54 &= &180 \\ 121 &- 121 &= &59 \end{aligned}$$

$$\begin{aligned} \frac{168}{70} &\neq \frac{109}{45} \\ 7630 &\neq 7560 \\ \text{Not } \sim \end{aligned}$$

13)  $\triangle FGH \sim \triangle RST$  sides proportional

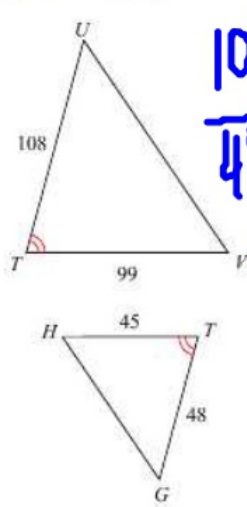


$$\frac{56}{16} = \frac{35}{10} = \frac{42}{12}$$

$$3.5 = 3.5 = 3.5$$

SSS ~

14)  $\triangle TUV \sim \triangle TGH$

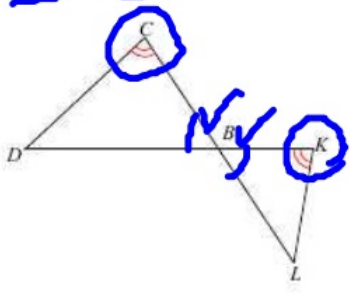


$$\frac{108}{48} \neq \frac{99}{45}$$

$$4752 \neq 4860$$

Not ~

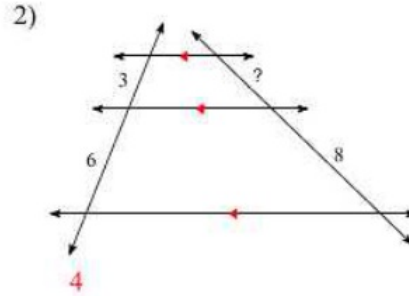
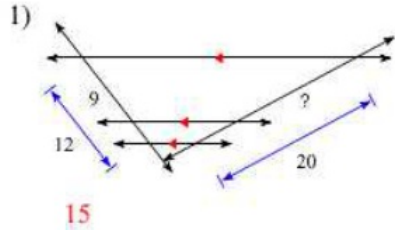
15)  $\triangle BCD \sim \triangle BKL$



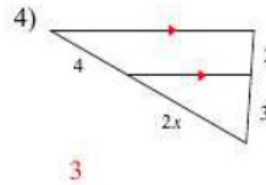
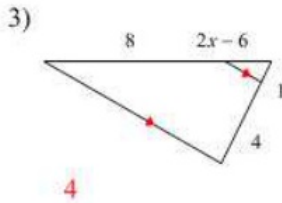
AA ~

Similarity REVIEW

Find the missing length indicated.

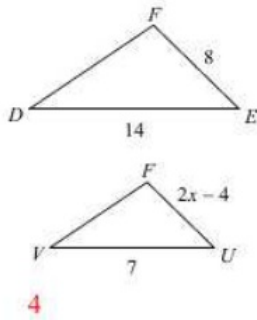


Solve for x.

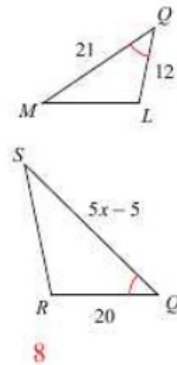


Solve for x. The triangles in each pair are similar.

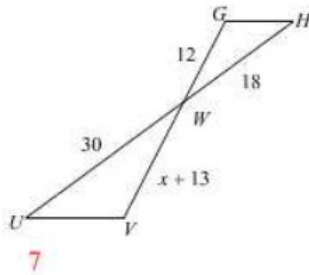
5)  $\triangle FED \sim \triangle FUV$



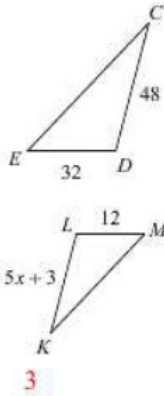
6)  $\triangle QRS \sim \triangle QLM$



7)  $\triangle WVU \sim \triangle WGH$

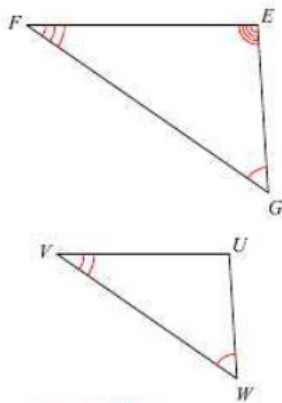


8)  $\triangle CDE \sim \triangle KLM$



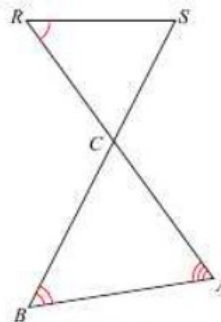
State if the triangles in each pair are similar. If so, state how you know they are similar.

9)  $\triangle GFE \sim \triangle WVU$



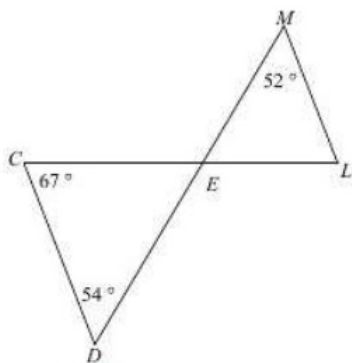
not similar

10)



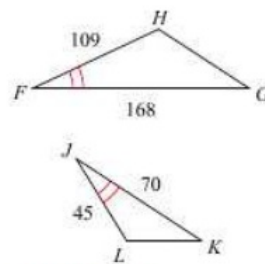
not similar

11)  $\triangle EDC \sim \triangle EML$



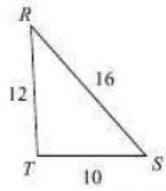
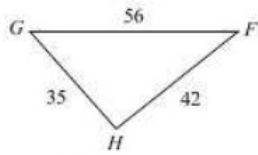
not similar

12)  $\triangle FGH \sim \triangle JKL$



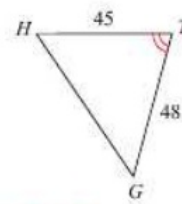
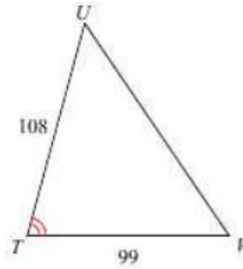
not similar

13)  $\triangle FGH \sim \triangle RST$



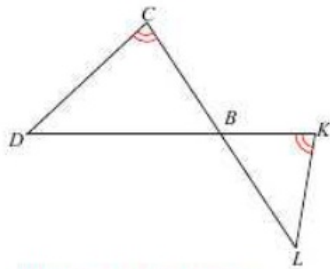
similar; SSS similarity

14)  $\triangle TUV \sim \triangle TGH$



not similar

15)  $\triangle BCD \sim \triangle BKL$



similar; AA similarity