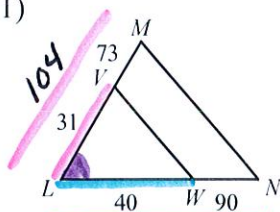
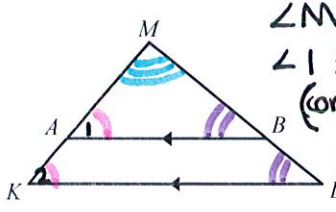
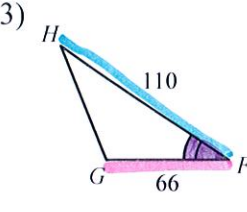


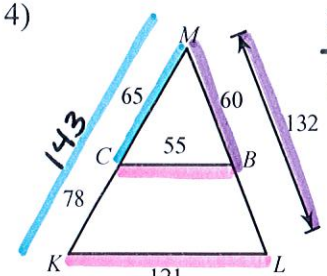
3.2 - PRACTICE

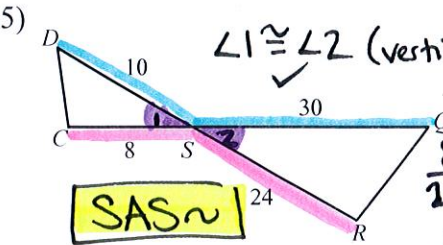
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

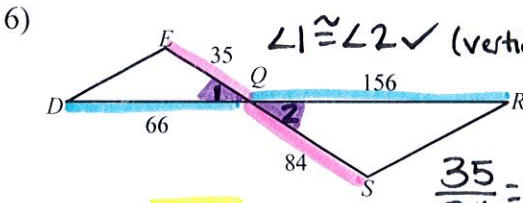
1)  $\angle L \cong \angle L$ ✓ (reflexive)
 $\frac{31}{40} = \frac{104}{130}$ X
 $\frac{31}{40} \neq \frac{4}{5}$
not ~

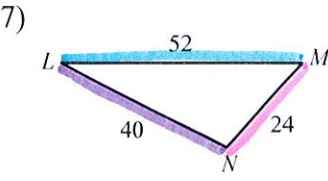
2)  $\angle M \cong \angle M$ ✓
 $\angle 1 \cong \angle K$ ✓ (corresponding \angle s)
AA ~
 $\triangle MLK \sim \triangle MBA$

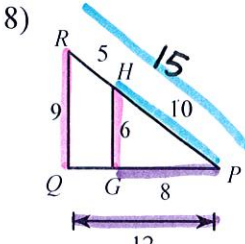
3)  $\angle U \cong \angle F$ ✓
 $\frac{66}{12} = \frac{110}{20}$
 $\frac{11}{2} = \frac{11}{2}$ ✓
SAS ~
 $\triangle FGH \sim \triangle UVW$

4)  $\frac{55}{121} = \frac{60}{132} = \frac{65}{143}$
 $\frac{5}{11} = \frac{5}{11} = \frac{5}{11}$ ✓
SSS ~
 * you could use **SAS ~** *
 $\angle M \cong \angle M$ ✓
 $\frac{60}{132} = \frac{65}{143}$ ✓
 $\triangle MLK \sim \triangle MBC$

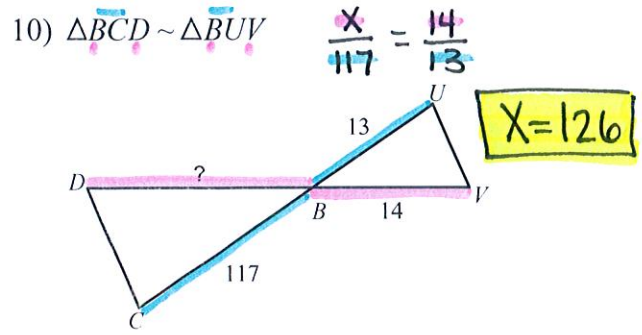
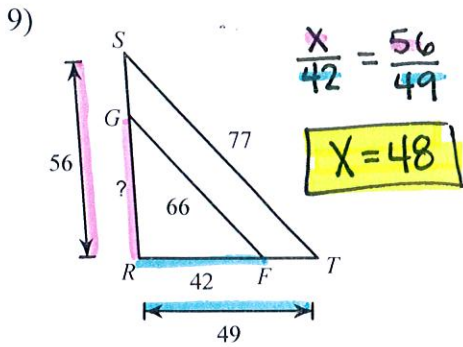
5)  $\angle 1 \cong \angle 2$ ✓ (vertical \angle s)
 $\frac{8}{24} = \frac{10}{30}$
 $\frac{1}{3} = \frac{1}{3}$ ✓
SAS ~
 $\triangle SRQ \sim \triangle SCD$

6)  $\angle 1 \cong \angle 2$ ✓ (vertical \angle s)
 $\frac{35}{84} = \frac{66}{156}$
 $\frac{5}{12} = \frac{11}{26}$ X
not ~
 $\triangle QRS \sim$ X

7)  $\frac{24}{18} = \frac{40}{30} = \frac{52}{39}$
 $\frac{4}{3} = \frac{4}{3} = \frac{4}{3}$ ✓
SSS ~
 $\triangle LMN \sim \triangle PQR$

8)  $\frac{6}{9} = \frac{8}{12} = \frac{10}{15}$
 $\frac{2}{3} = \frac{2}{3} = \frac{2}{3}$ ✓
SSS ~
 * you could use **SAS ~**
 $\angle P \cong \angle P$
 $\frac{8}{12} = \frac{10}{15}$ ✓
 $\triangle PQR \sim \triangle PGH$

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



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

