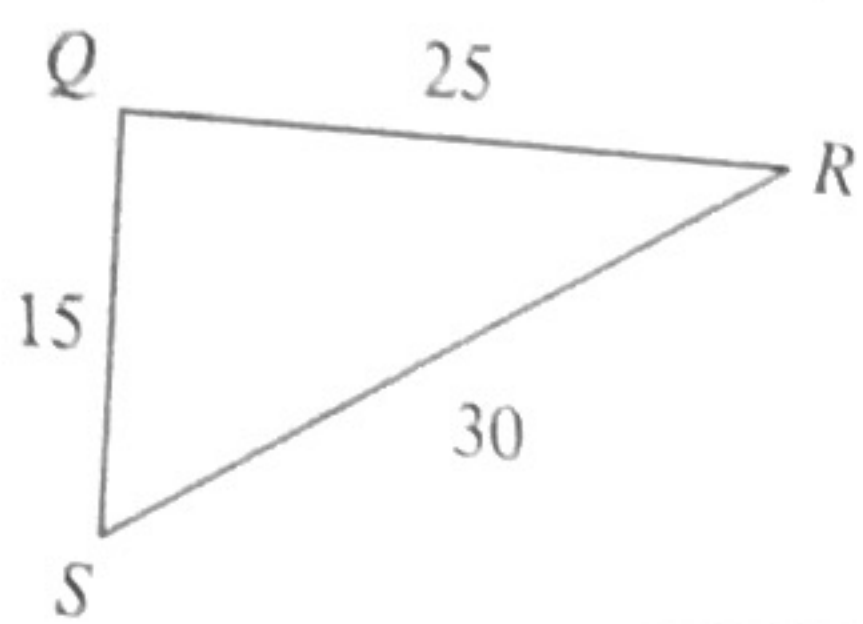
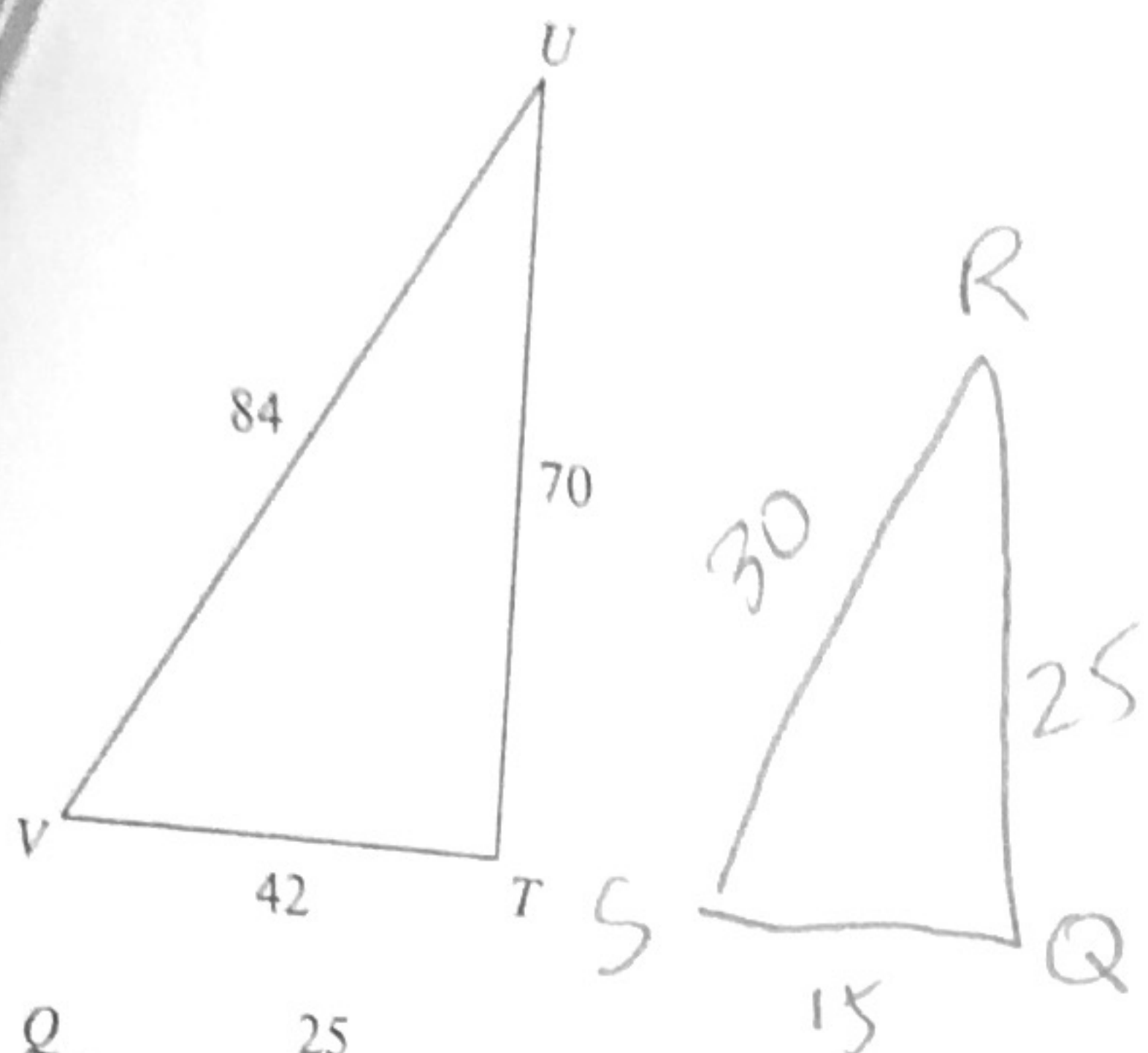


Ger
8



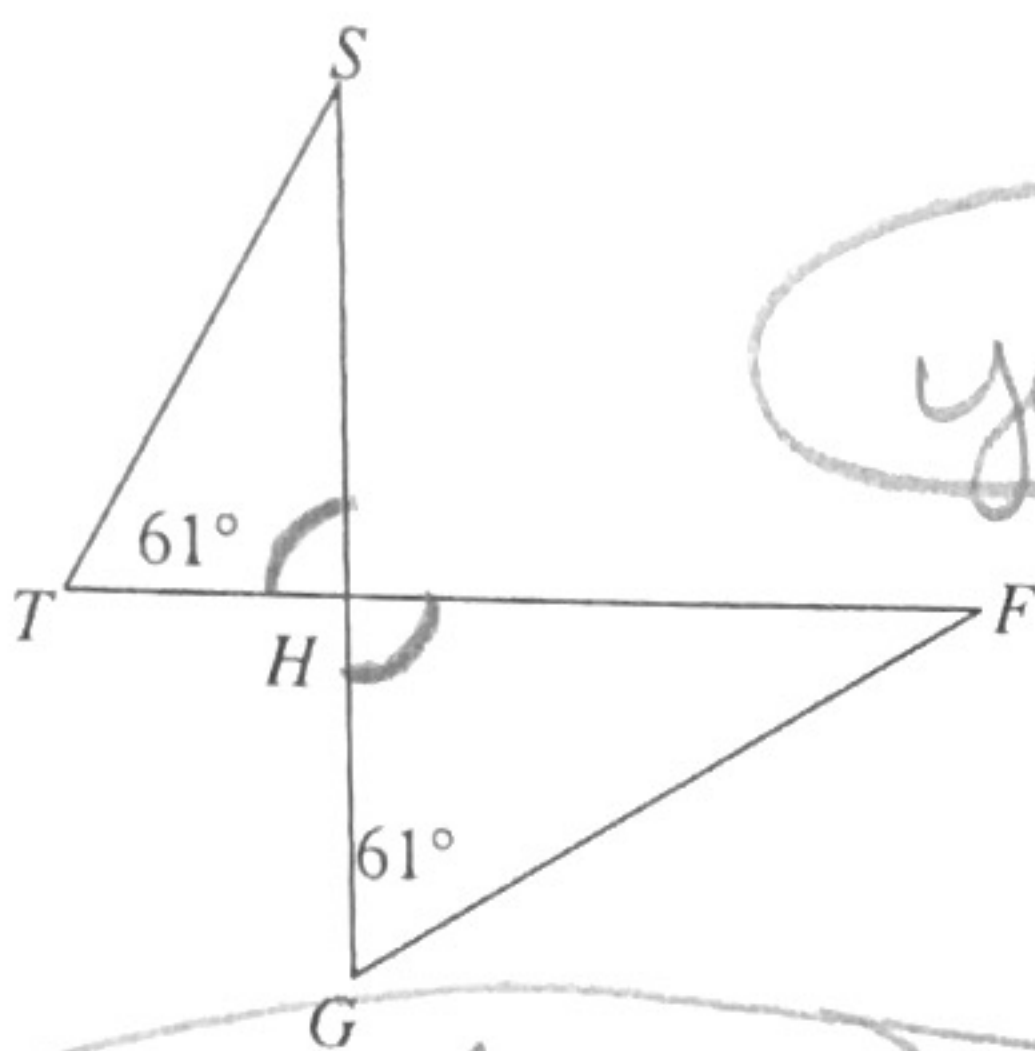
$$\frac{84}{30} = \frac{70}{25} = \frac{42}{15}$$

$$2.8 \quad 2.8 \quad \boxed{2.8}$$

$\Delta TUV \sim \underline{QRS}$

yes SSS

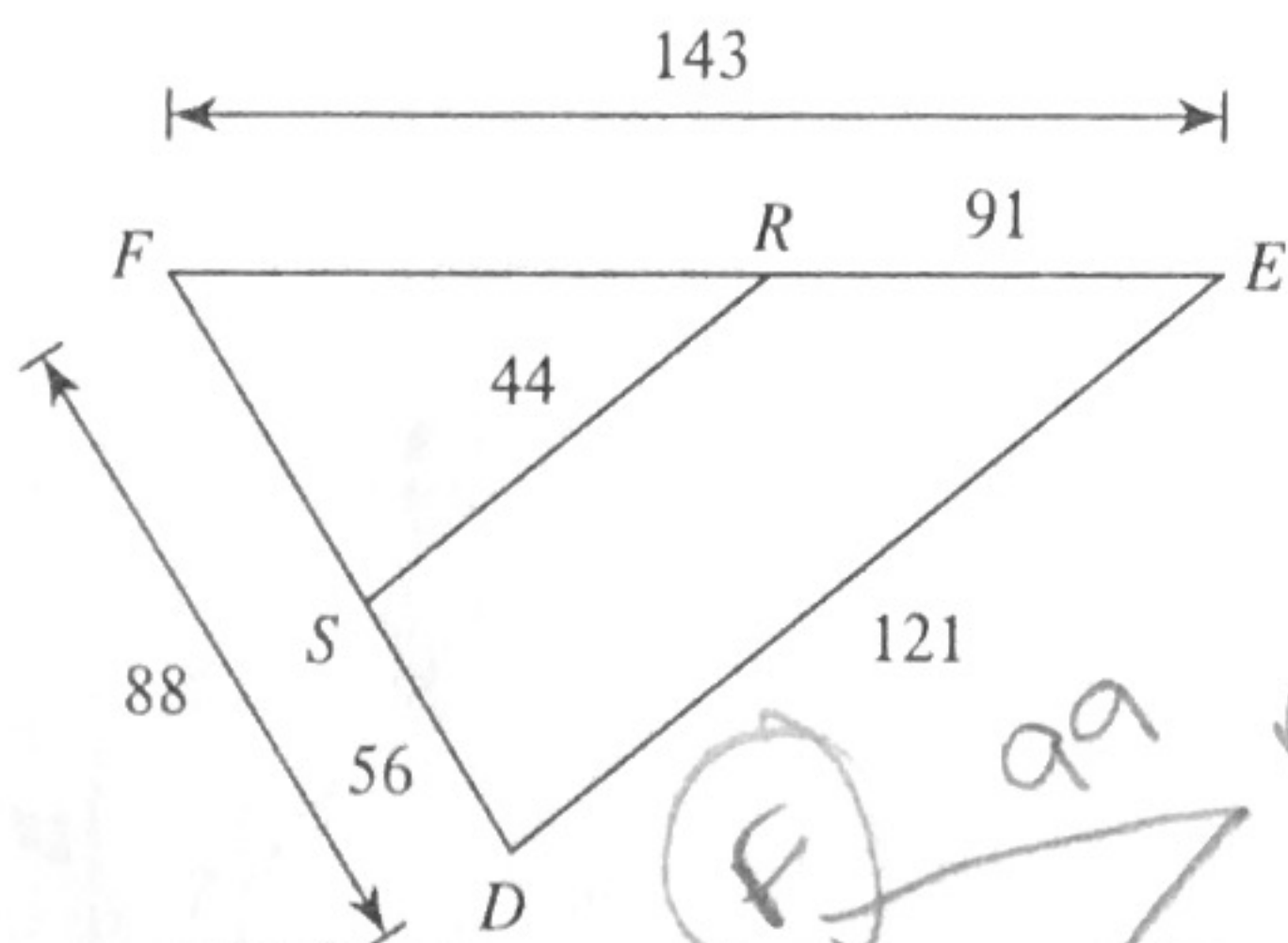
9)



yes AA

$\Delta HGF \sim \underline{\Delta HTS}$

11)



$\Delta FED \sim \underline{\Delta FRS}$

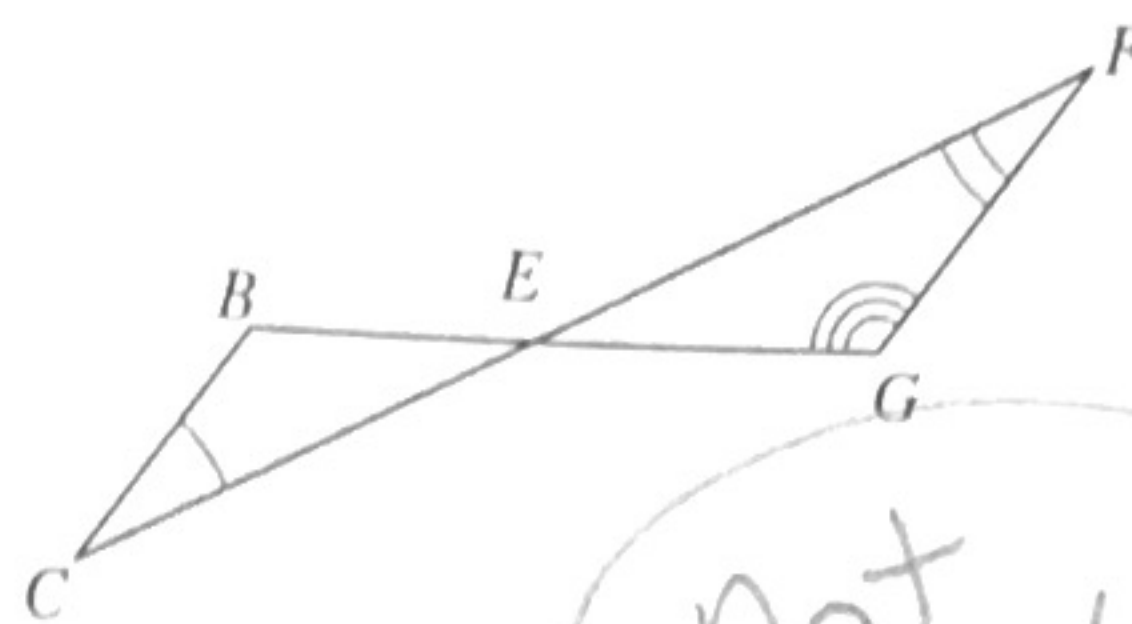
yes SAS

$$\frac{32}{88} \neq \frac{52}{143}$$

.363

.363

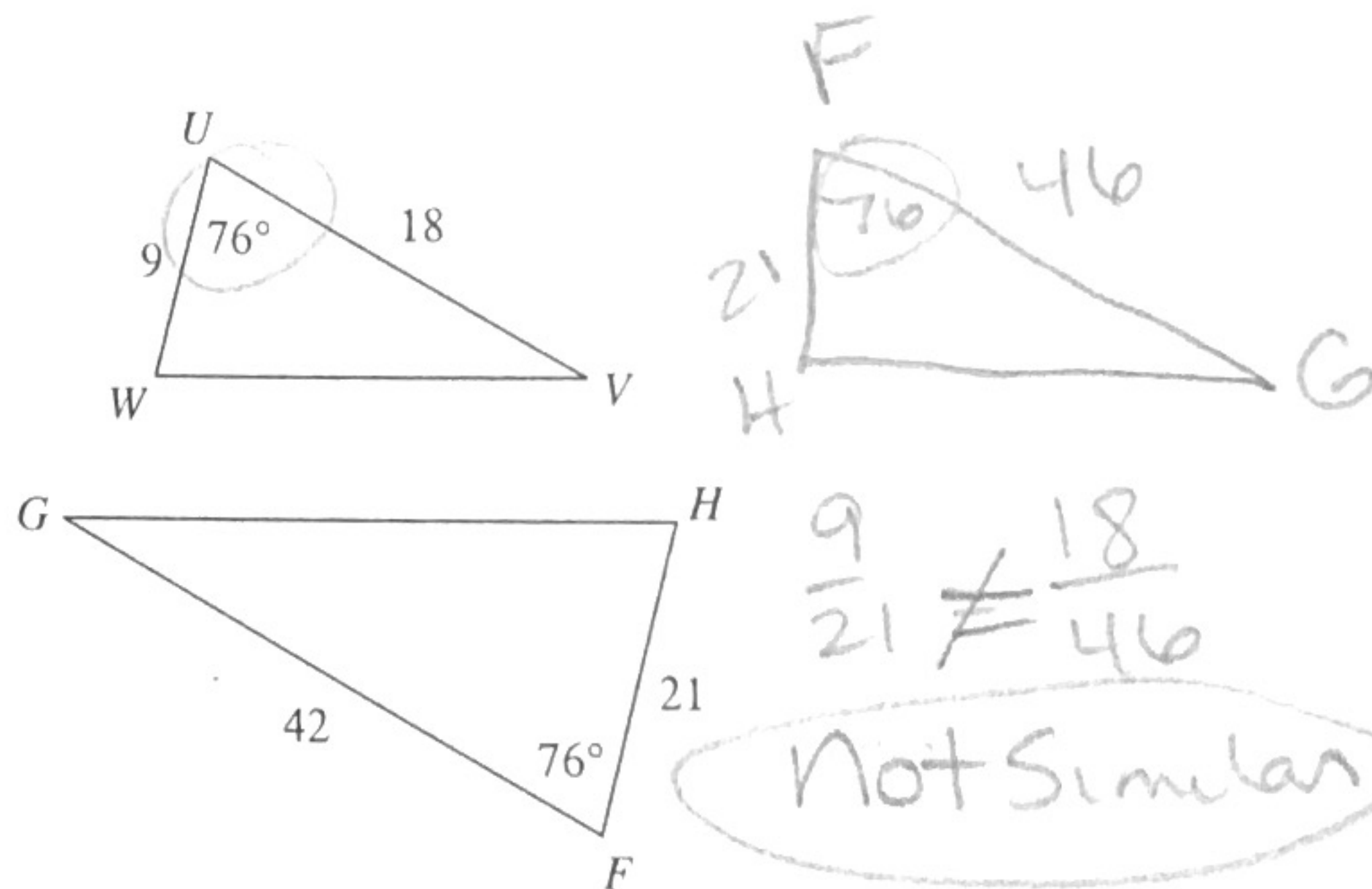
8)



$\Delta EFG \sim$

Not Similar

10)

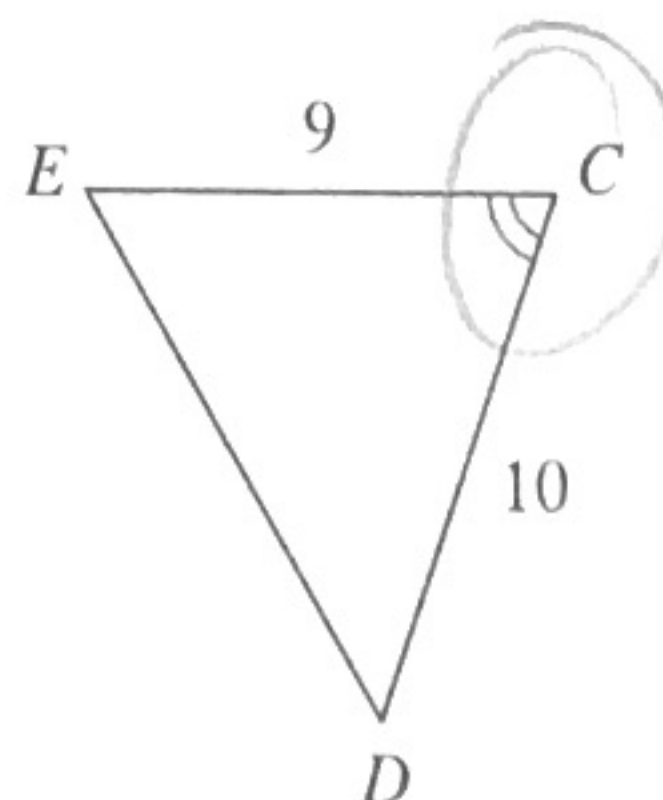


$$\frac{9}{21} \neq \frac{18}{46}$$

Not Similar

$\Delta FGH \sim$

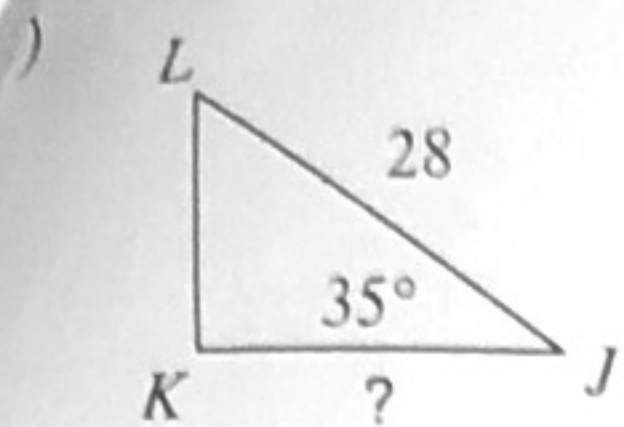
12)



$$\frac{30}{10} = \frac{27}{9}$$

$\Delta TUV \sim \underline{\Delta CDE}$

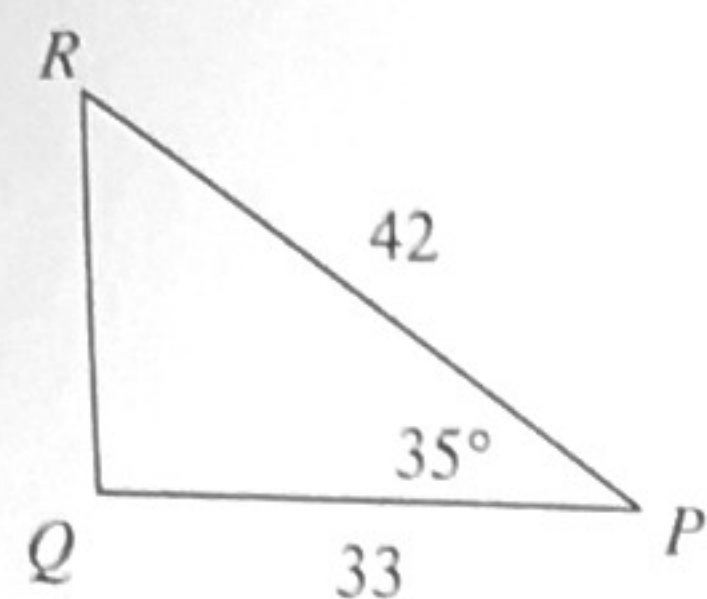
the missing length. The triangles in each pair are similar.



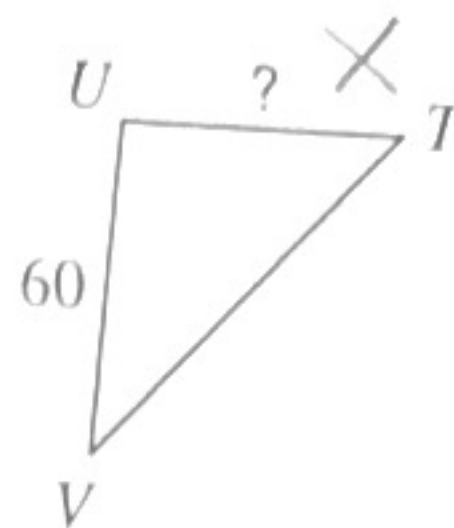
$$\frac{28}{42} = \frac{x}{33}$$

$$924 = 42x$$

$$x = 22$$



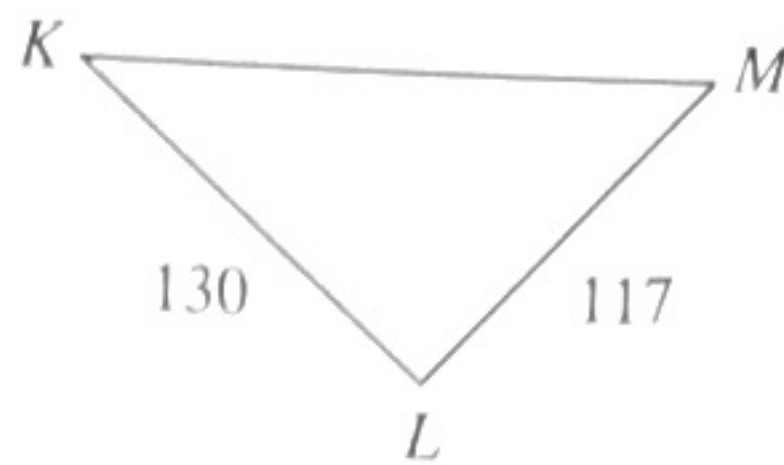
14)



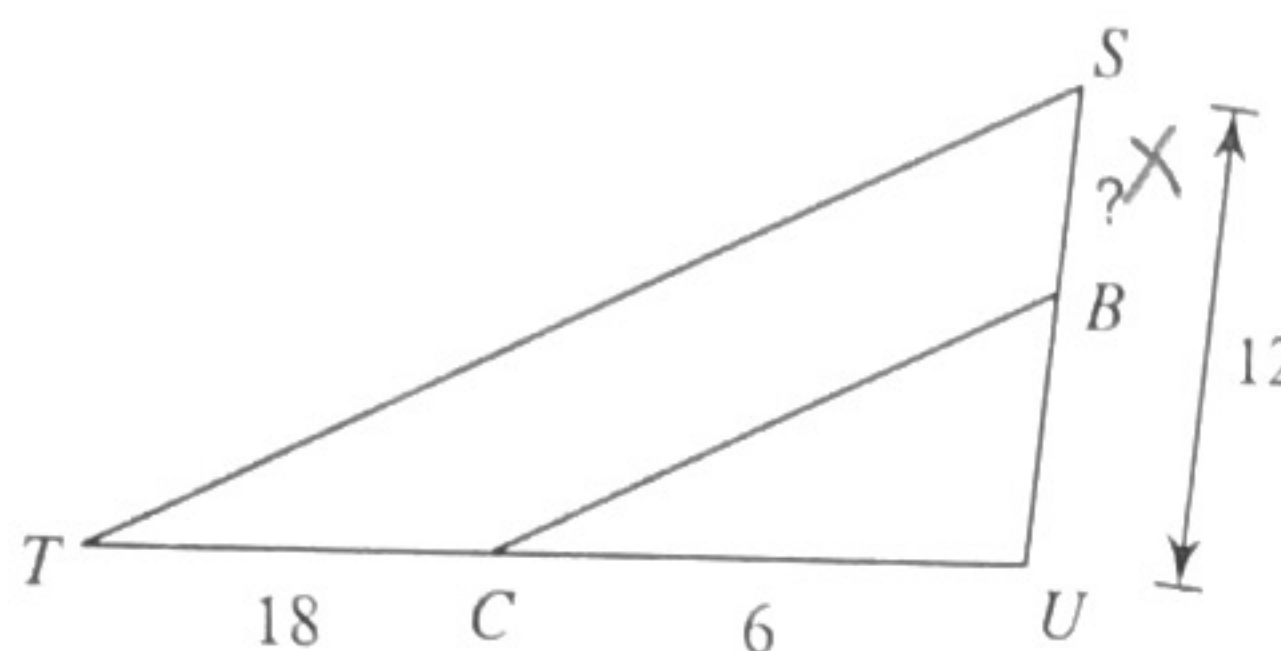
$$\frac{60}{130} = \frac{x}{117}$$

$$7020 = 130x$$

$$x = 54$$



15)

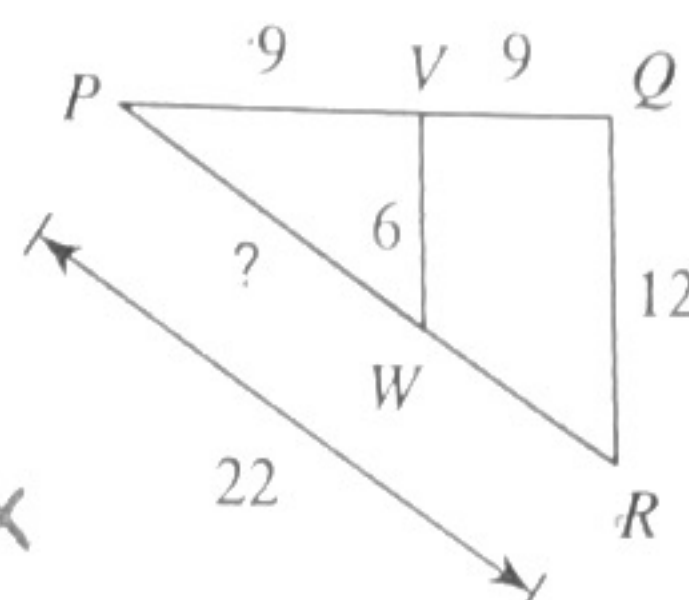


$$\frac{6}{18} = \frac{12-x}{x}$$

$$6x = 216 - 18x$$

$$x = 9$$

16)



$$\frac{9}{18} = \frac{x}{22}$$

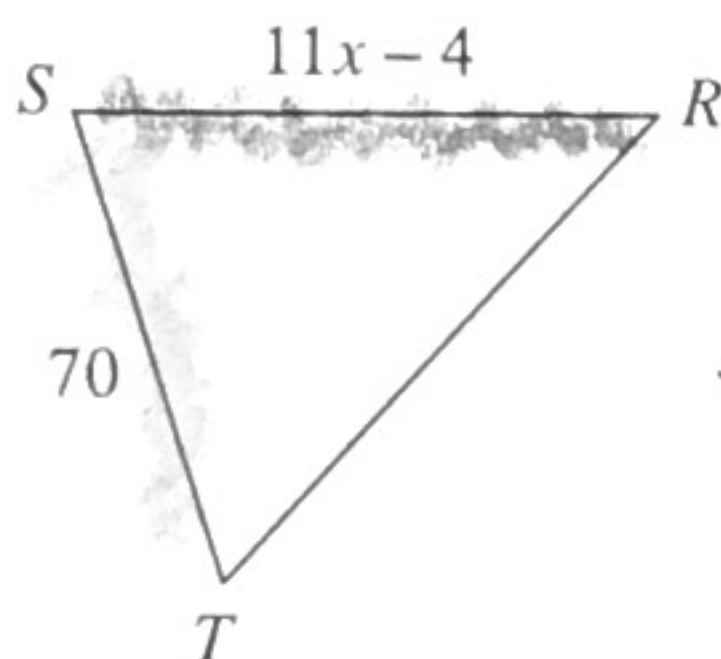
$$18x = 9 \cdot 22$$

$$18x = 198$$

$$x = 11$$

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

17)

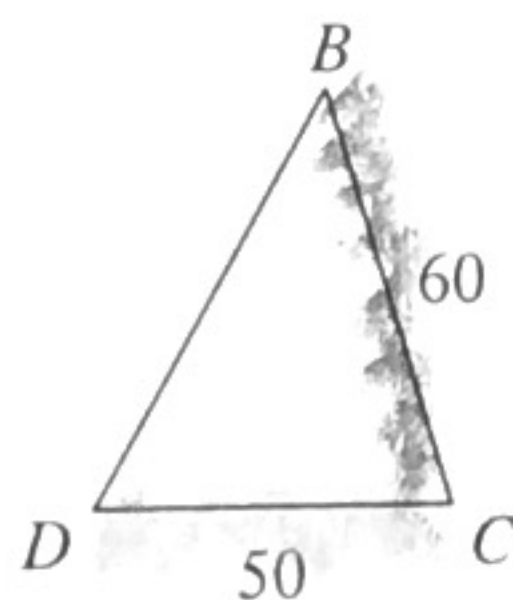


$$\frac{11x-4}{60} = \frac{70}{50}$$

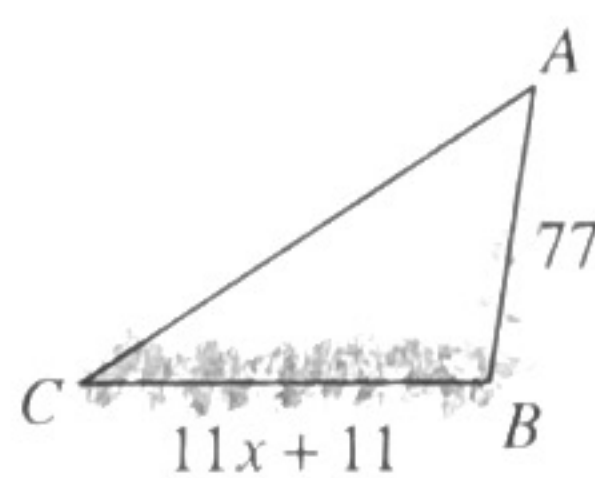
$$55x - 200 = 4200$$

$$55x = 4400$$

$$x = 80$$



18)

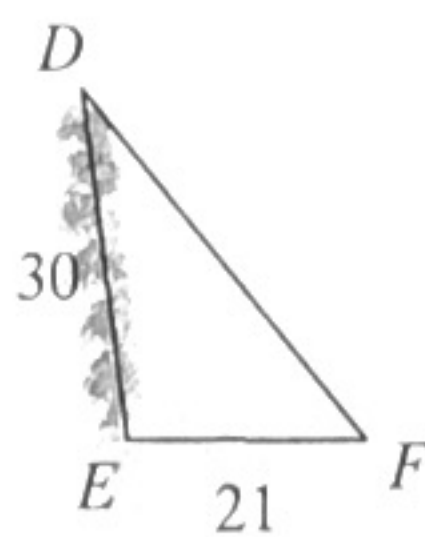


$$\frac{11x+11}{30} = \frac{77}{21}$$

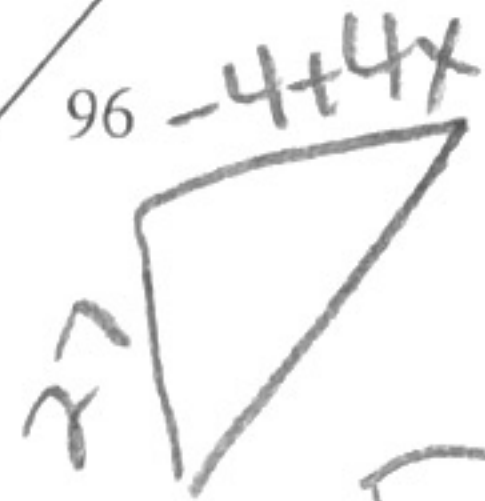
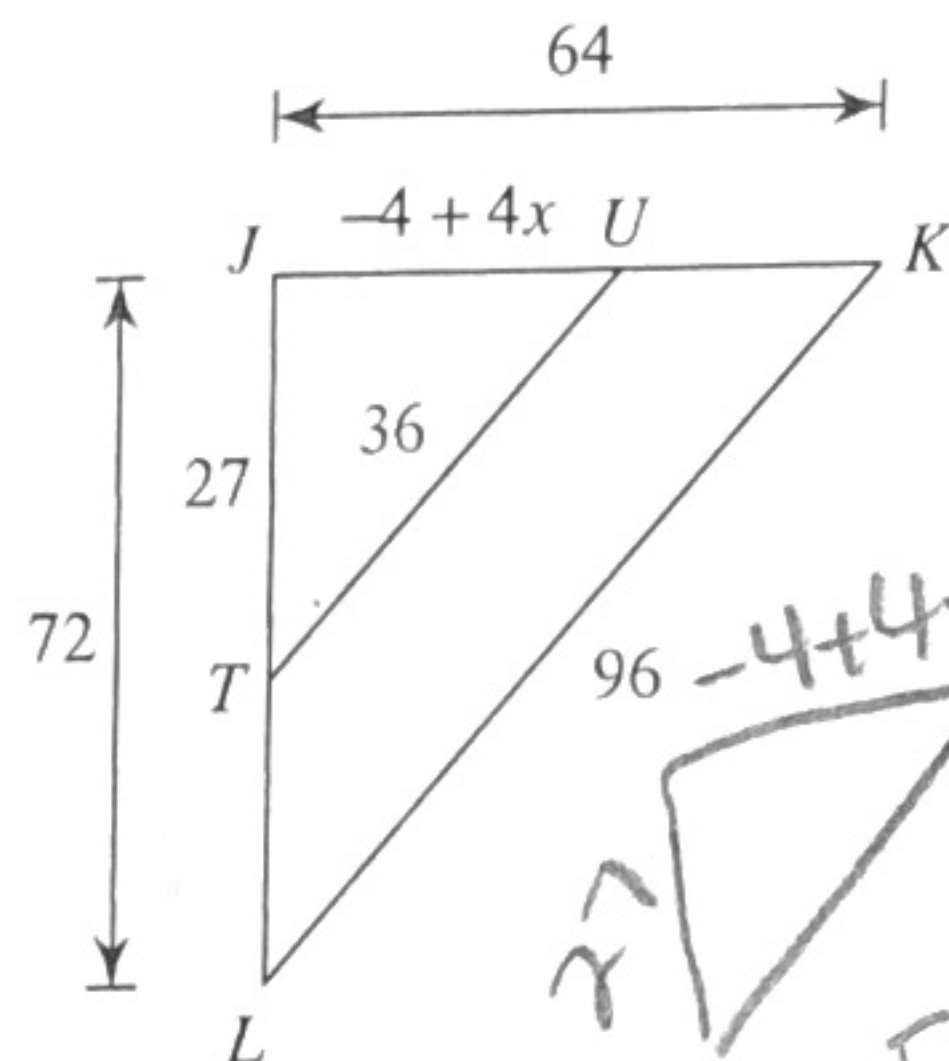
$$231x + 231 = 2310$$

$$231x = 2079$$

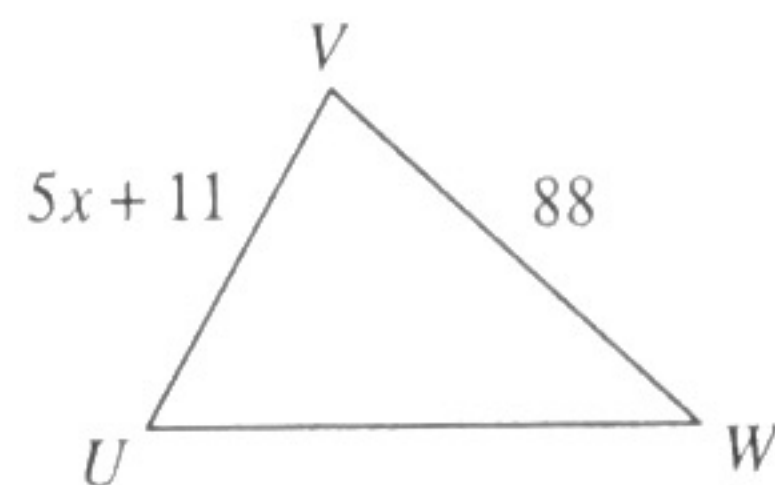
$$x = 9$$



19)



20)

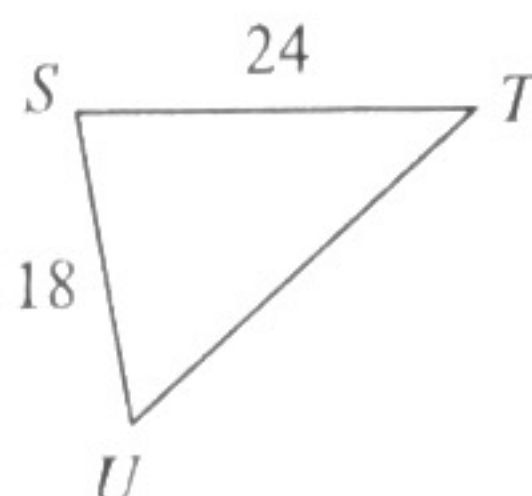


$$\frac{5x+11}{18} = \frac{88}{24}$$

$$120x + 264 = 1584$$

$$120x = 1320$$

$$x = 11$$



$$\frac{27}{72} = \frac{-4x+4}{64}$$

$$1728 = -288x + 288$$

$$1440 = -288x$$

$$x = 5$$

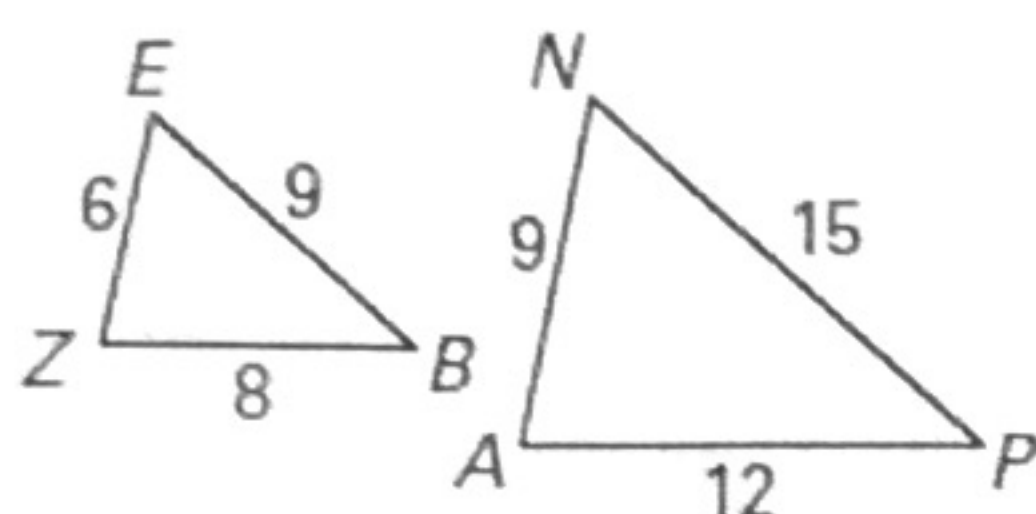
D3
HW

Name: Key
Date: _____ Block: _____

For each of the following triangles determine the following:

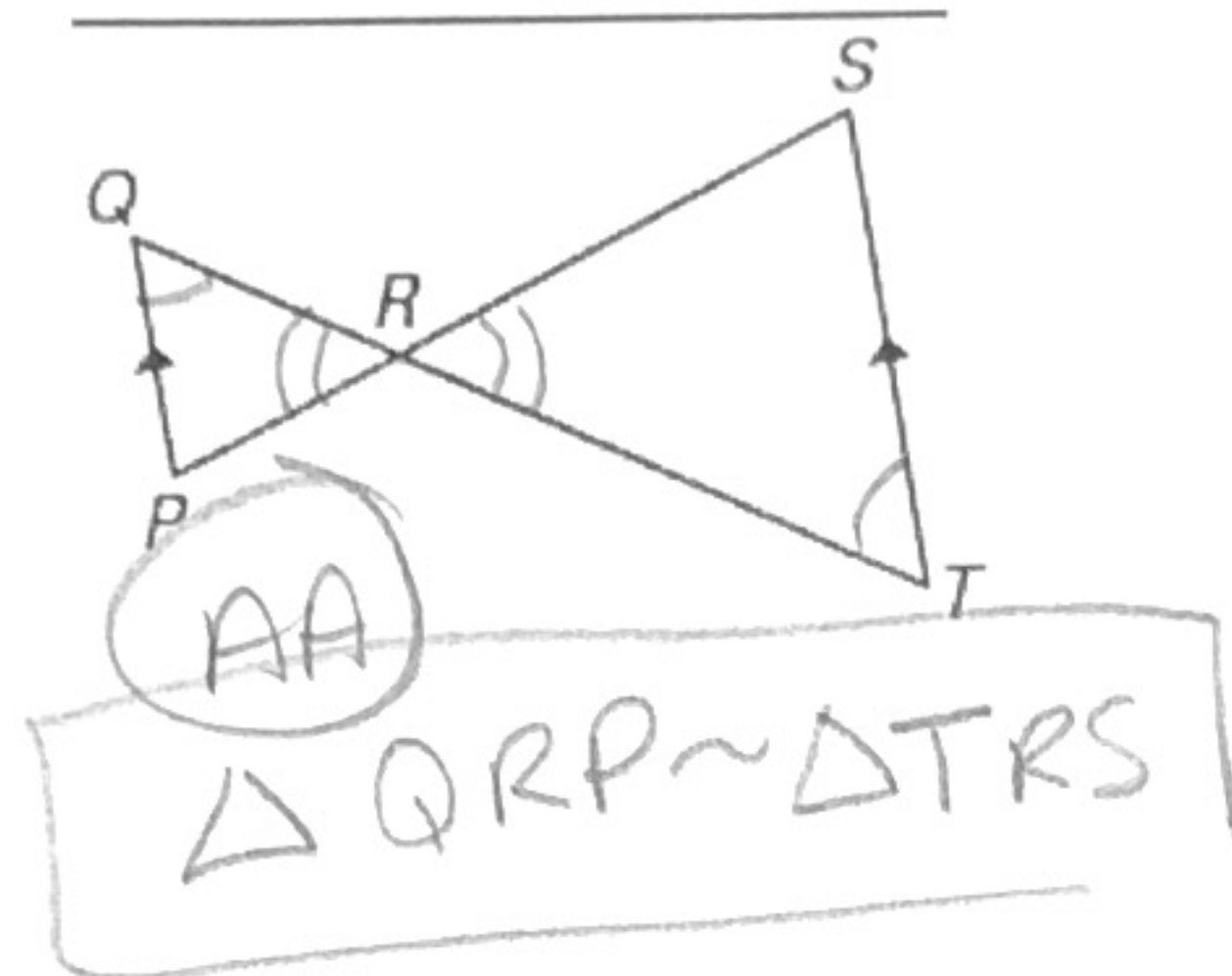
1. What similarity method should you attempt to use to show similarity? (AA, SSS, SAS)
2. Are the triangles similar? (yes or no)
3. If they are similar, write a similarity statement and find the scale factor.

1. Not



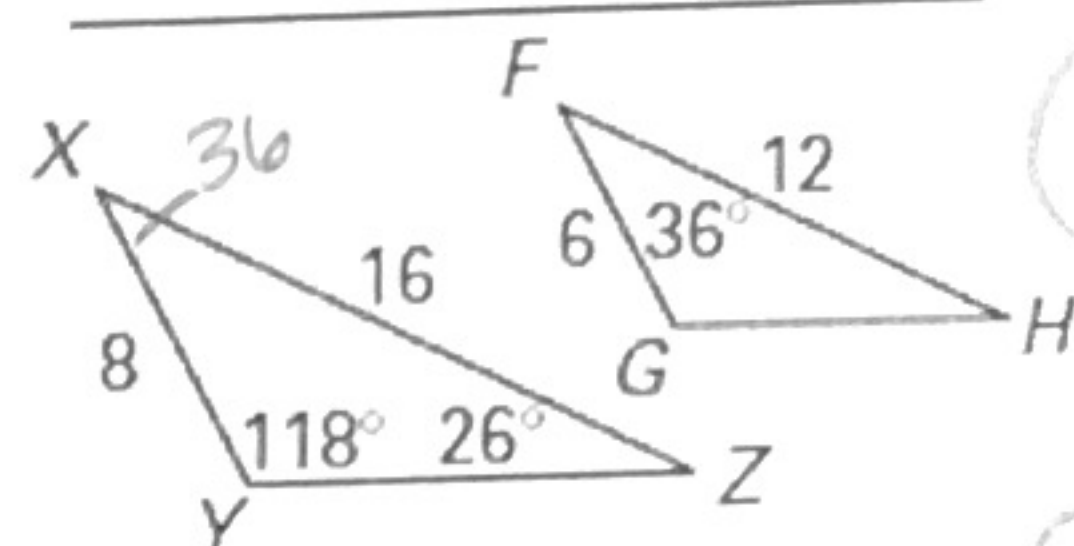
SSS
 $\frac{6}{9} \neq \frac{9}{15} \neq \frac{8}{12}$
 $\frac{2}{3} \neq \frac{3}{5} \neq \frac{2}{3}$

2. AA



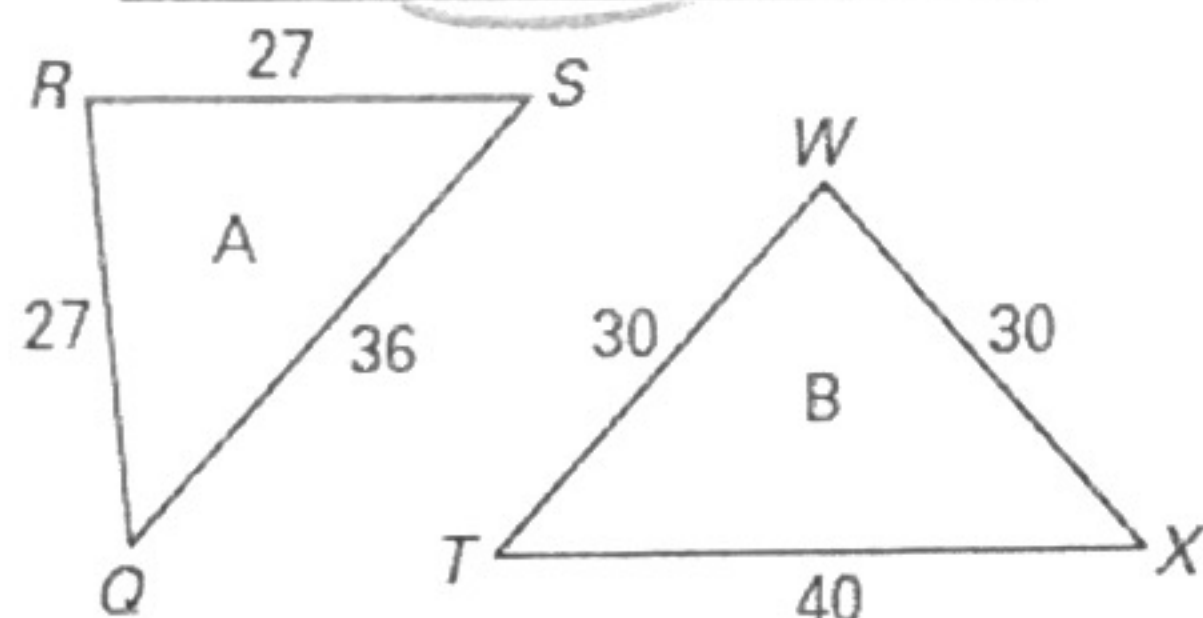
AA
 $\triangle QRP \sim \triangle TRS$

3. _____



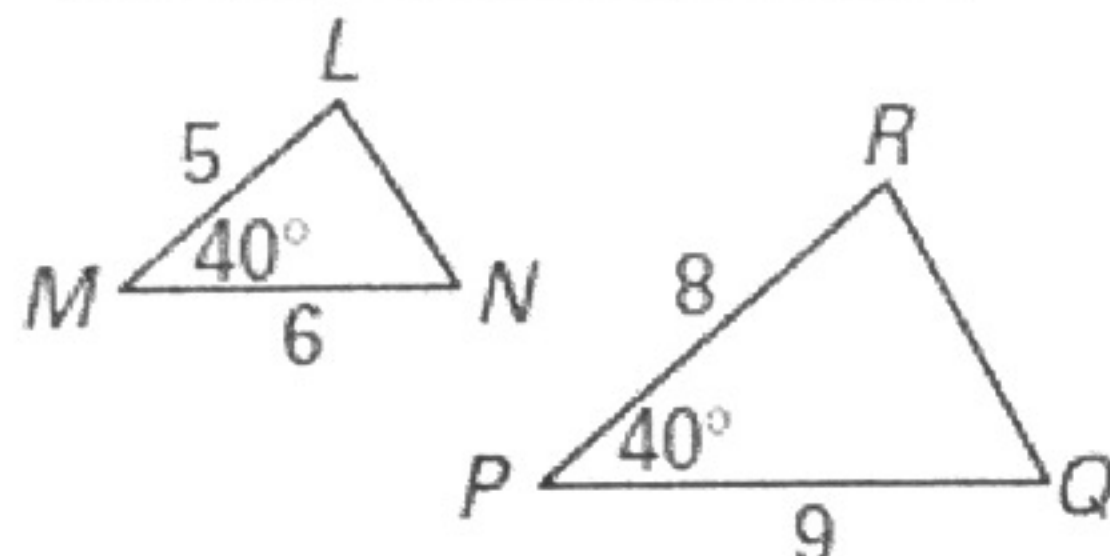
AA
 $\frac{8}{6} = \frac{16}{12} = \frac{4}{3}$
 $\triangle XYZ \sim \triangle FGH$

4. SSS
(9/10)



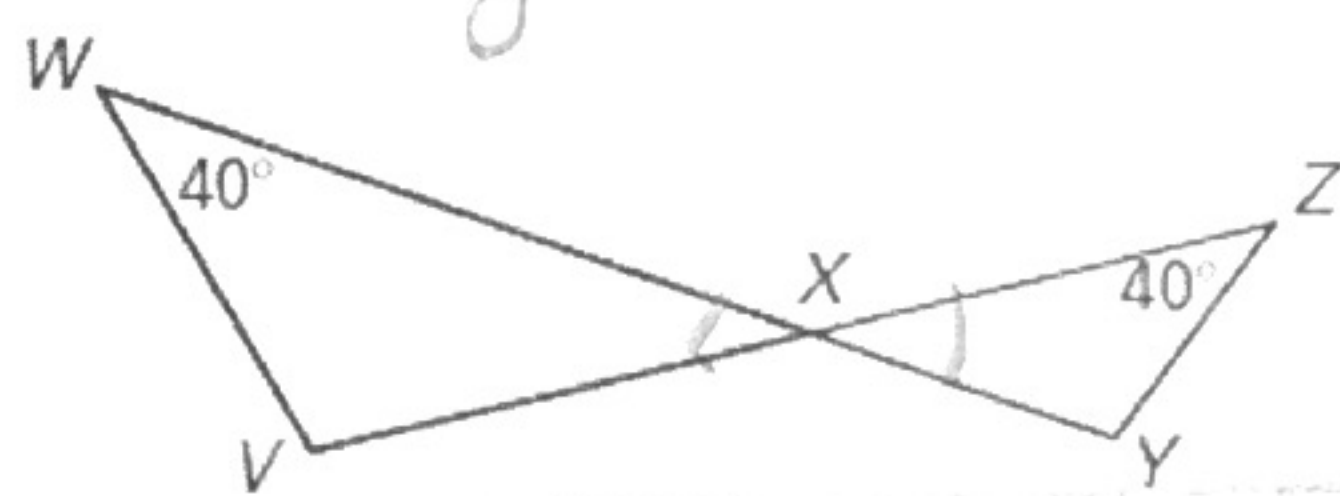
$\frac{27}{30} = \frac{27}{30} = \frac{36}{40}$
 $\frac{9}{10} = \frac{9}{10} = \frac{9}{10}$

5. SAS
Not Similar



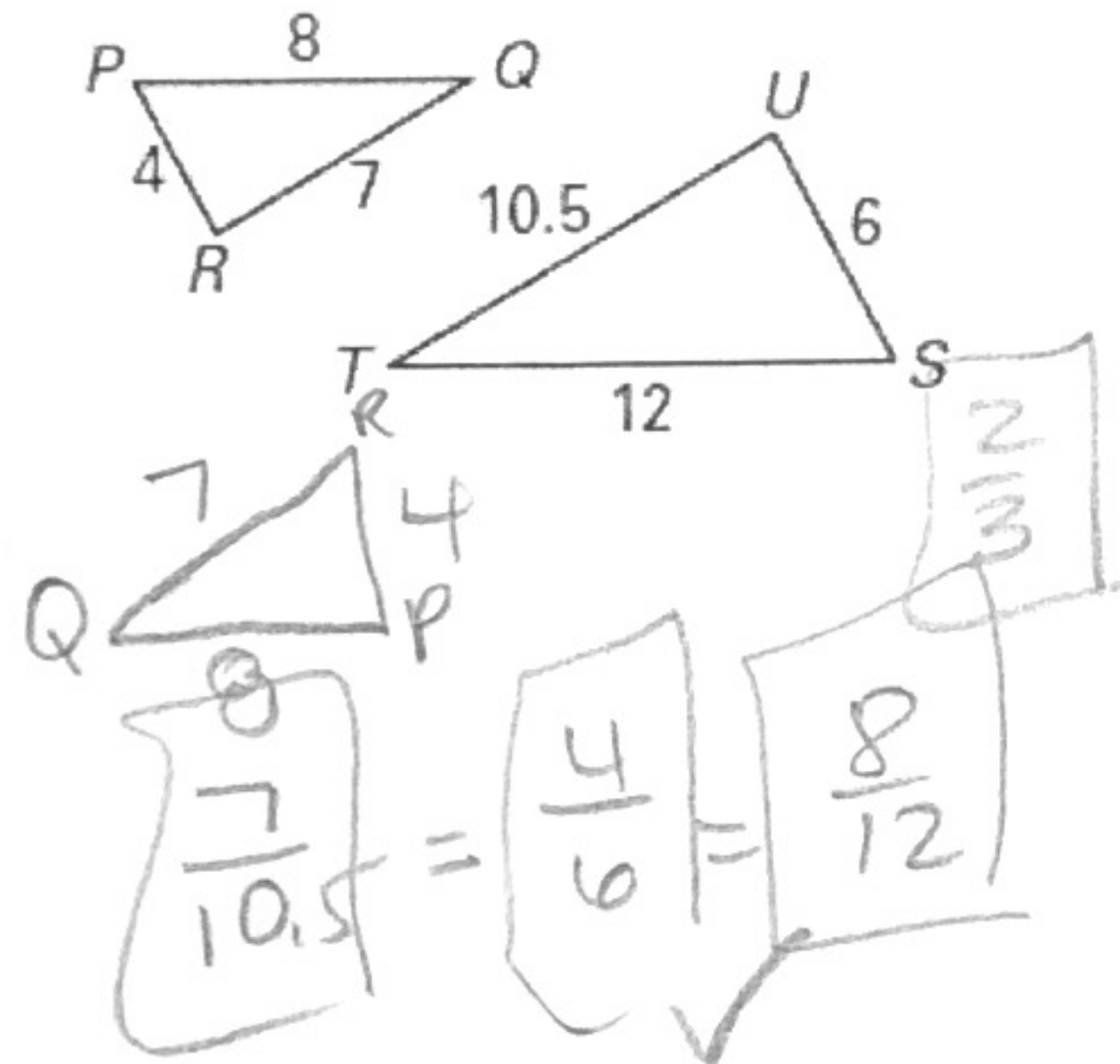
$\frac{5}{8} \neq \frac{6}{9}$

6. AA
yes



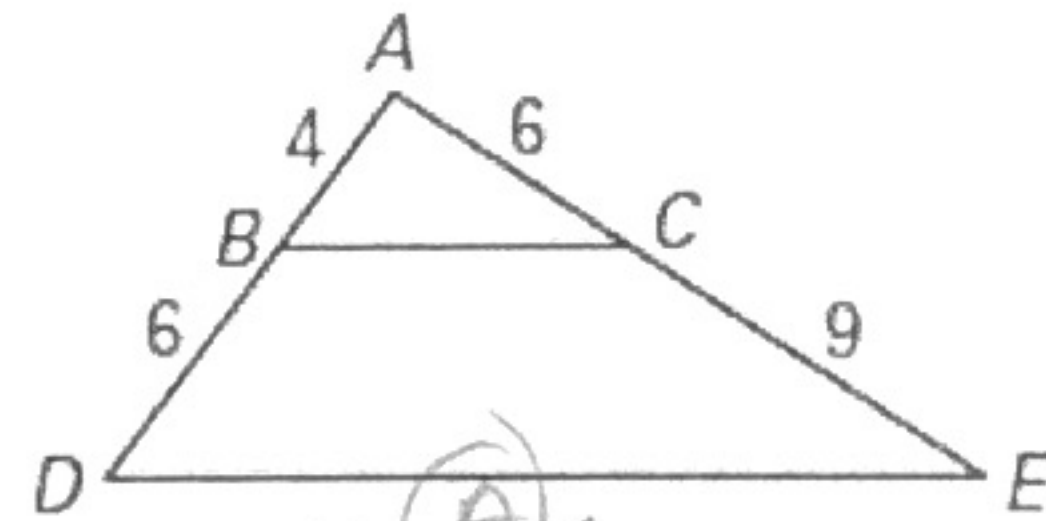
$\triangle WVX \sim \triangle ZYX$

7. SSS
 $\triangle PRQ \sim \triangle SUT$



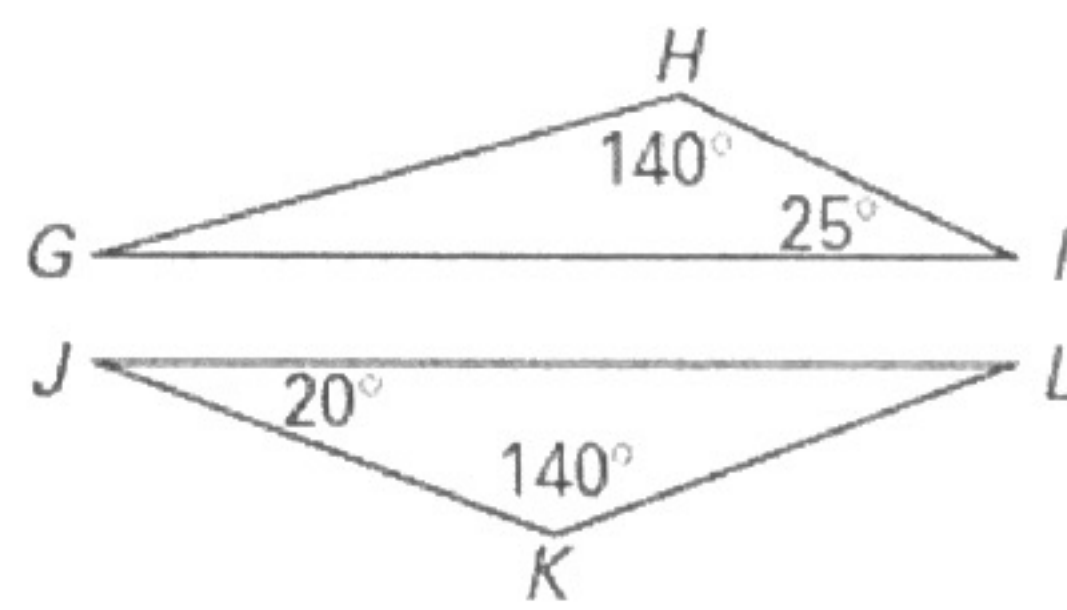
$\frac{8}{10.5} = \frac{4}{6} = \frac{7}{12}$
 $\frac{4}{6} = \frac{2}{3}$
 $\frac{7}{12} = \frac{7}{12}$

8. SAS
 $\triangle ABC \sim \triangle ADC$



$\frac{4}{6} = \frac{6}{9}$
 $\frac{2}{3} = \frac{2}{3}$
 $\frac{10}{15} = \frac{2}{3}$

9. NOT Similar



Similar Triangles

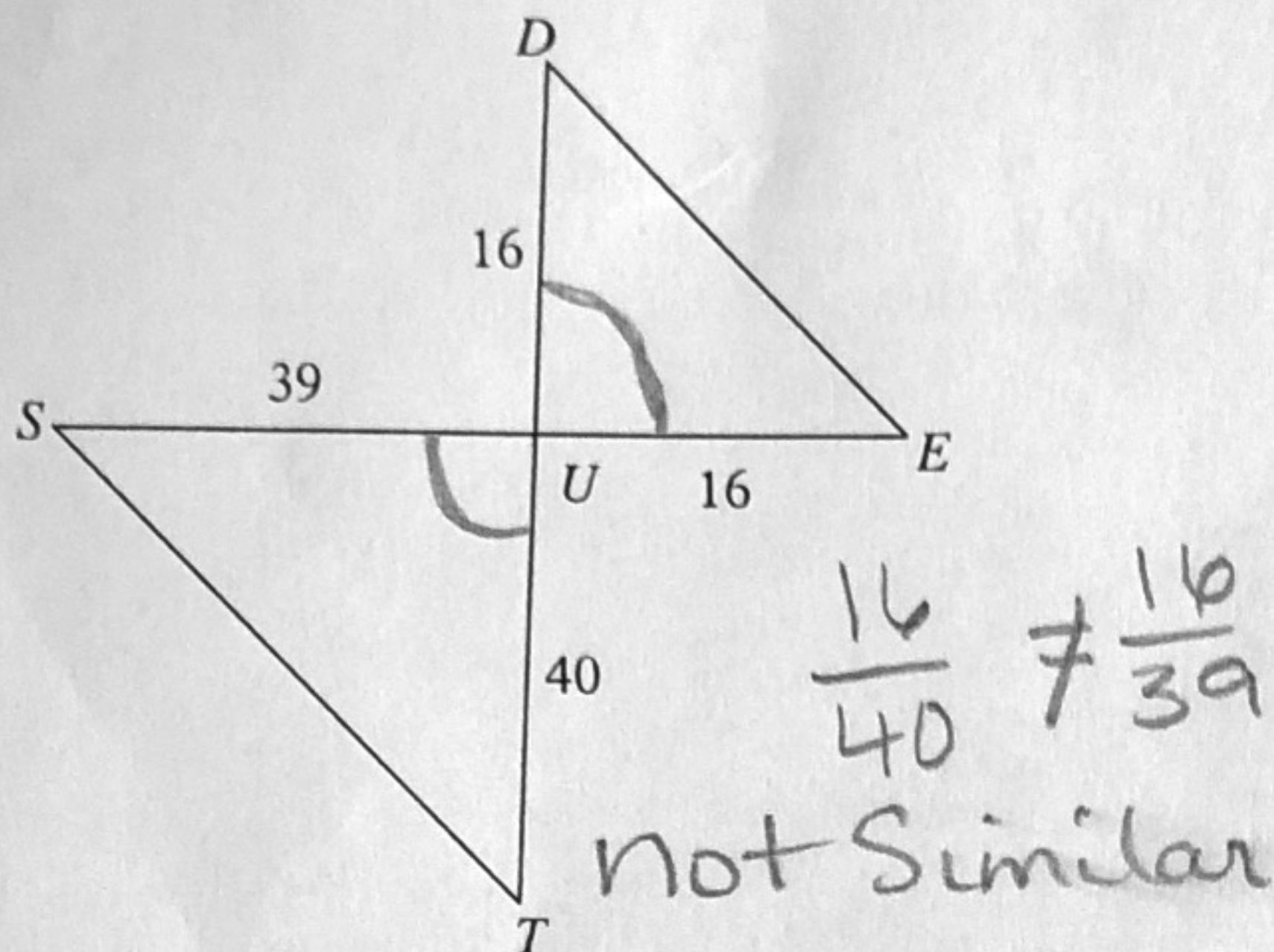
Chp8 D3
HW

Date

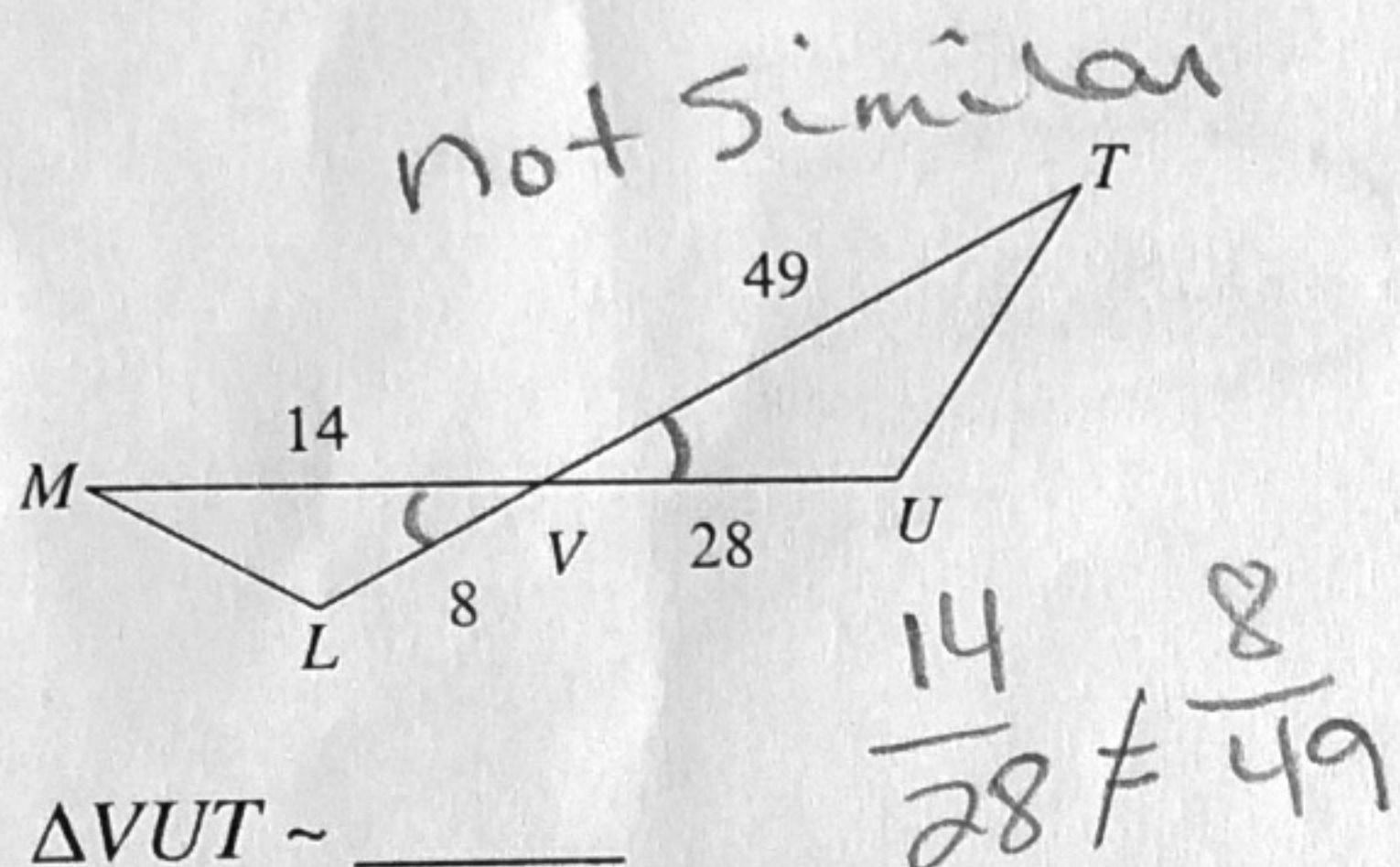
Period

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

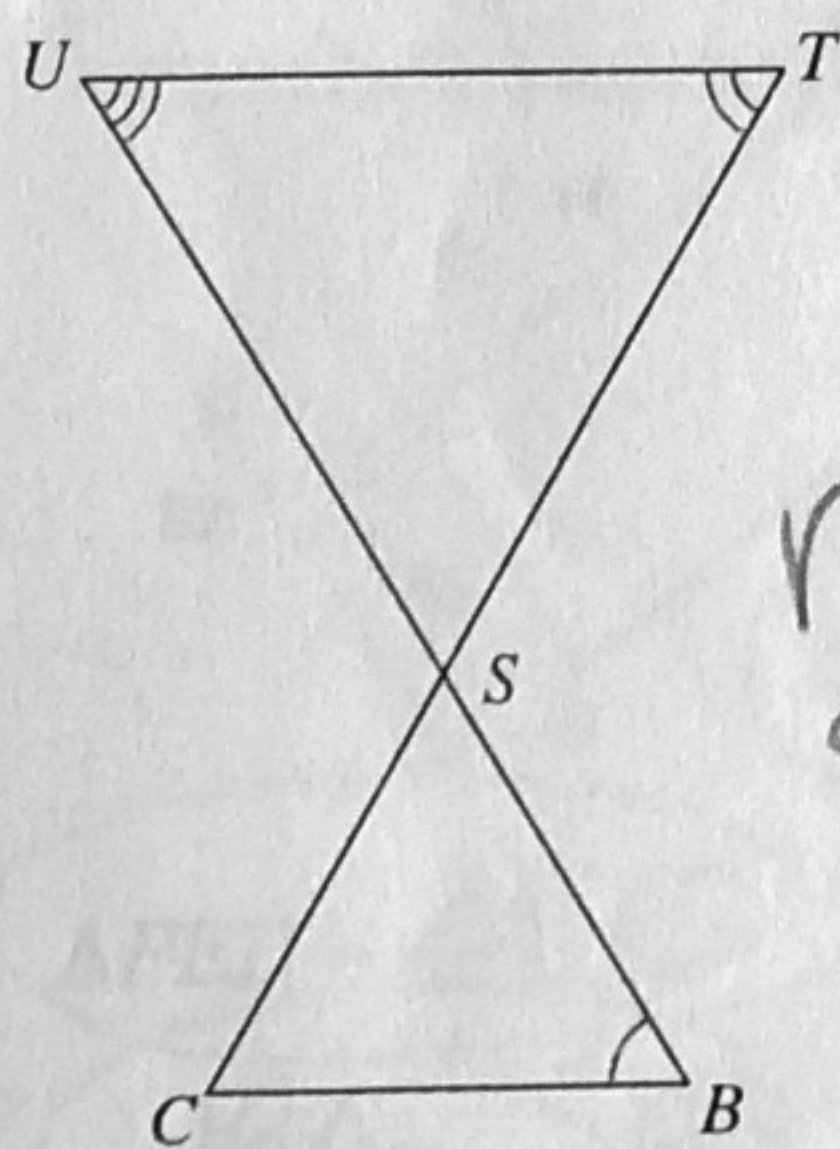
1)

 $\Delta UTS \sim$

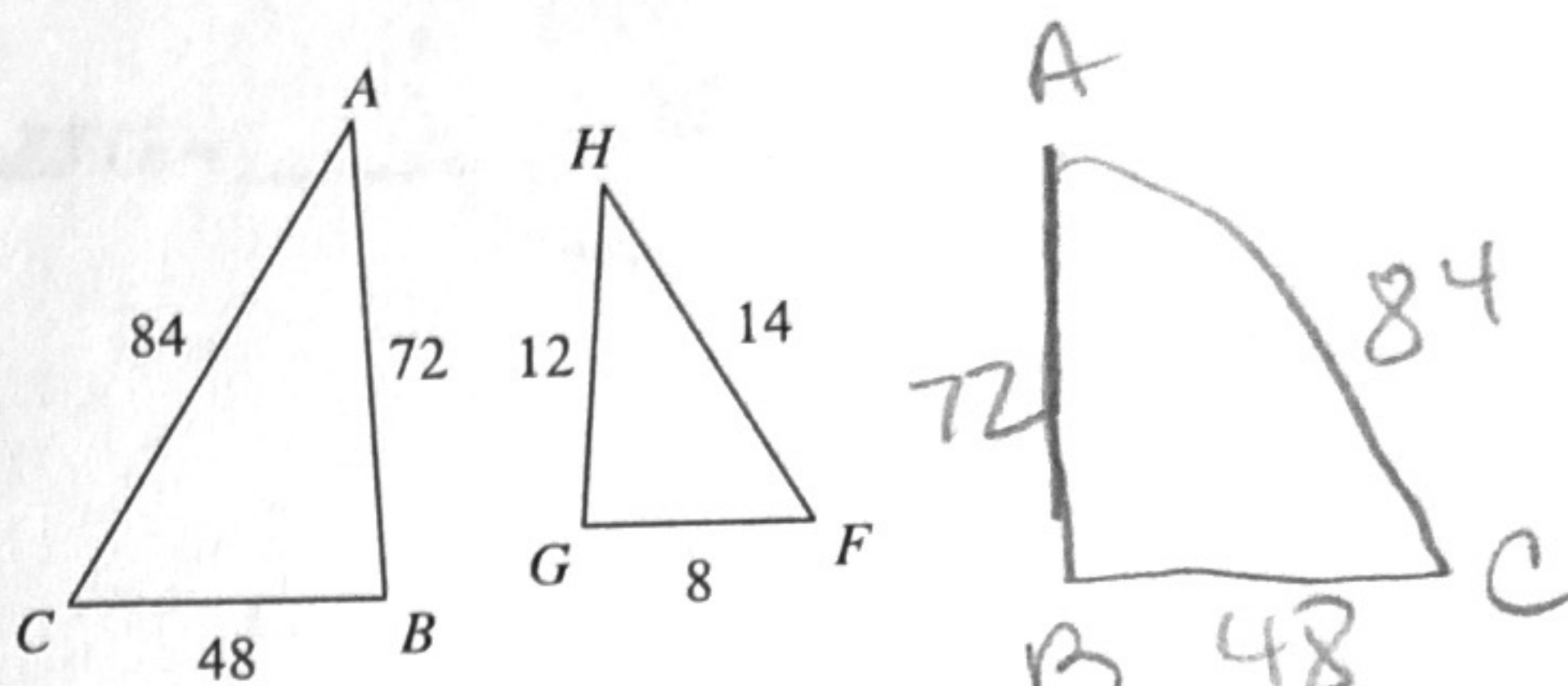
3)

 $\Delta VUT \sim$

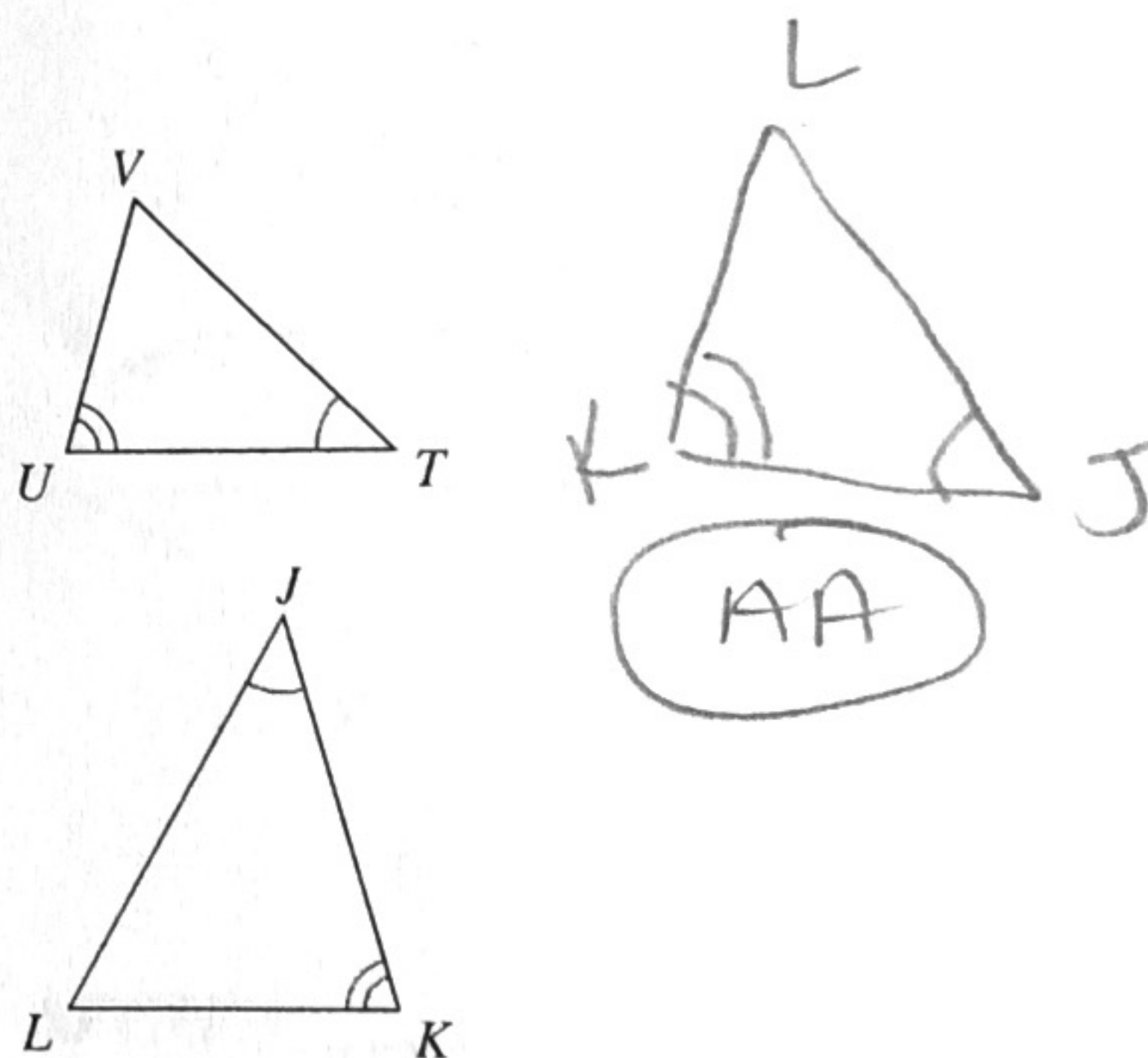
5)

 $\Delta STU \sim \Delta SCB$ Not
Similar
AA

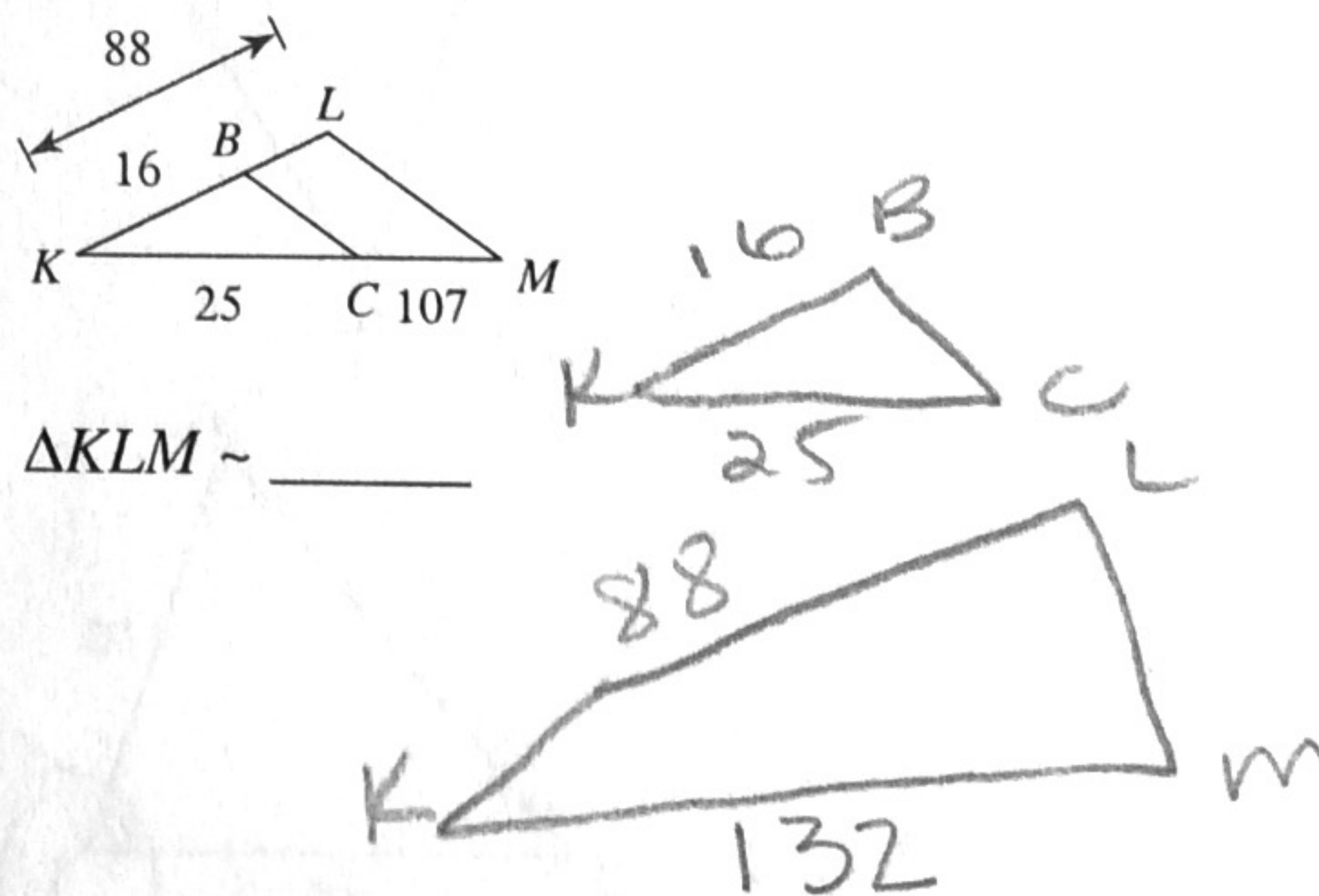
2)

 $\Delta CBA \sim$

4)

 $\Delta JKL \sim \Delta TUV$

6)

 $\Delta KLM \sim$

Not
Similar
 $\frac{16}{88} \neq \frac{25}{132}$