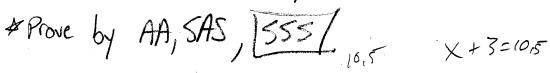
## Similar Triangle Review

Name: Lex

When two figures are similar, what has to be true?

2. Sides proportional

3. Solve each proportion:



$$\frac{5}{x} = \frac{8}{11}$$

b. 
$$\frac{3}{5} = \frac{6}{x+3}$$

$$\frac{3}{x} = \frac{11}{11}$$

$$\frac{3}{x+3} = \frac{3}{3}$$

$$\frac{3}{x+9} = \frac{3}{3}$$

$$\frac{3}{x+9} = \frac{3}{3}$$

$$\frac{3}{x+9} = \frac{3}{3}$$

c.  $\frac{x+3}{3} = \frac{10+4}{4}$ 

$$\frac{4x = 30}{4}$$

$$x = 7.5$$

4. Complete each statement if Polygon  $LIFE \sim BOAT$ 

a. 
$$\angle F = \angle A$$

b. 
$$\angle E = \angle \mathcal{T}$$

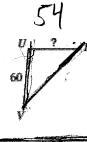
a. 
$$\angle F = \angle \underline{\mathcal{A}}$$
 b.  $\angle E = \angle \underline{\mathcal{A}}$  c.  $\frac{IF}{OA} = \frac{2}{AT}$  d.  $\frac{2}{BT} = \frac{LI}{BO}$ 

$$d. \frac{2}{BT} = \frac{LL}{BC}$$

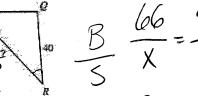
5. The following shapes are similar. Complete the similarity statement and find the missing side.

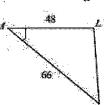
b.

a.







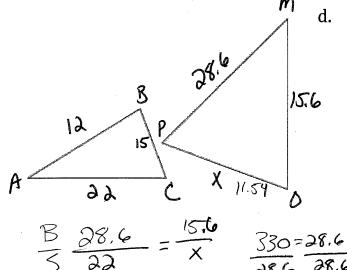


$$x = SH(\Delta TVU) \Delta \hat{J}$$

$$x = 55 \qquad \Delta LNM \sim \Delta \frac{1000}{1000}$$

70.2

C.



$$x = 1/.54$$
  $\triangle ABC \sim \triangle POM$ 

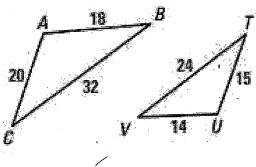
X=11.54

$$x = 14$$

$$= 14 \Delta BAM \sim \Delta DEN$$

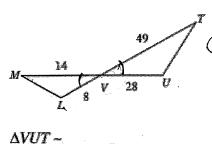
6. If possible, prove that the two triangles are similar by using a FLOWCHART. In the final Circle I should see a similarity statement like the ones above and an Abbreviation on what you used to come to that statement. If they are not similar just write NOT SIMILAR.

a.



 $\Delta ABC \sim \Delta$ 

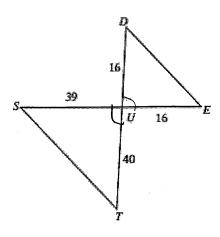
b.



ZTVU=ZMVL

AVUT~ DVLM

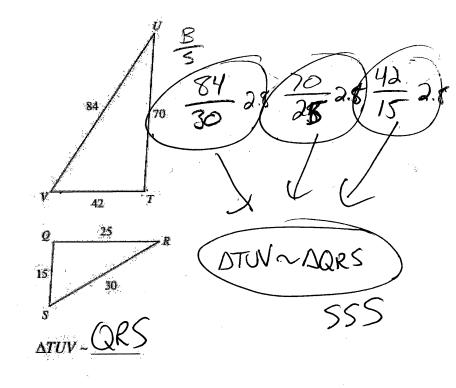
C.



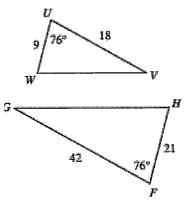
ΔUTS - \_\_\_

Not Similar

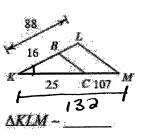
d.



e.



f.



$$\frac{25}{16} = 1.5635 \frac{132}{88} = 1.5$$
Not Similar



