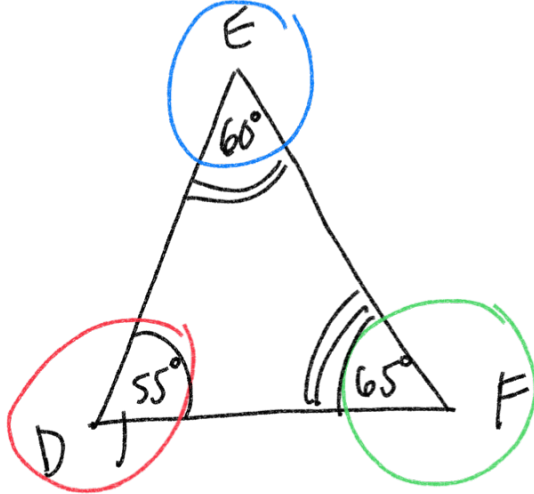
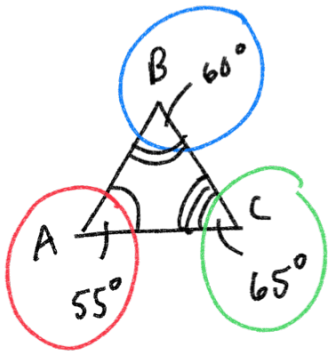


4-1 Congruent Figures and Corresponding Parts

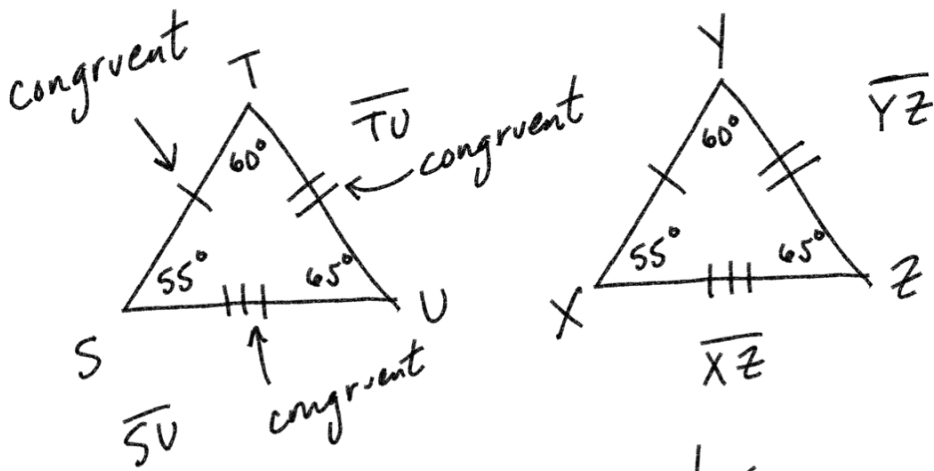
Similar Triangle

Congruent Triangle



$\triangle BAC$ similar to $\triangle EDF$

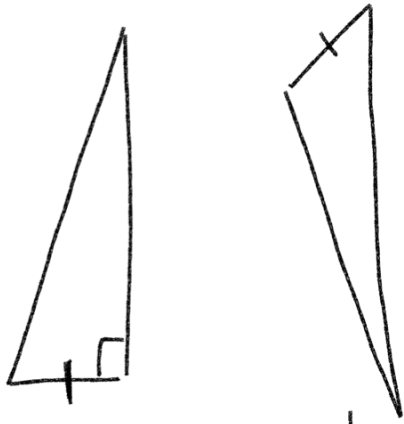
$\triangle ABC$ is similar to $\triangle DEF$
equal angles



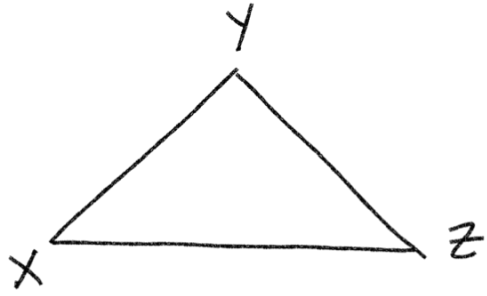
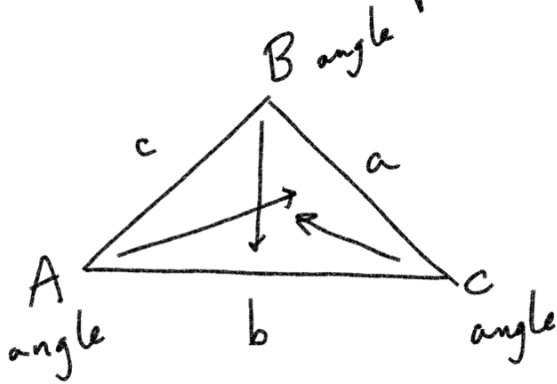
Congruent Triangles

$$\triangle TSU \cong \triangle YXZ$$

in order for triangles to be congruent, you must have at least one side congruency.

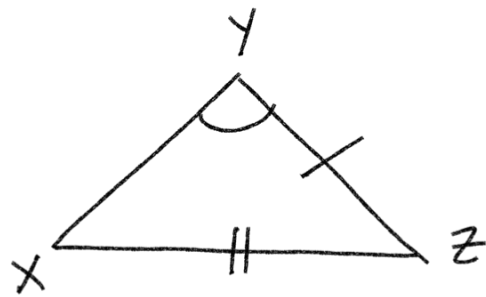
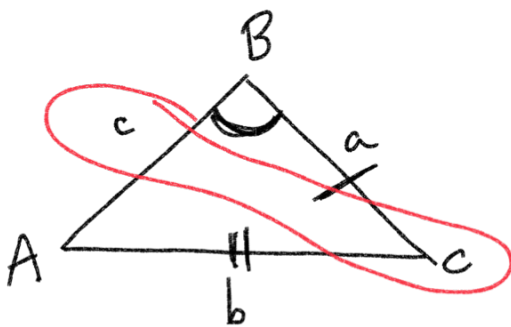


not congruent!

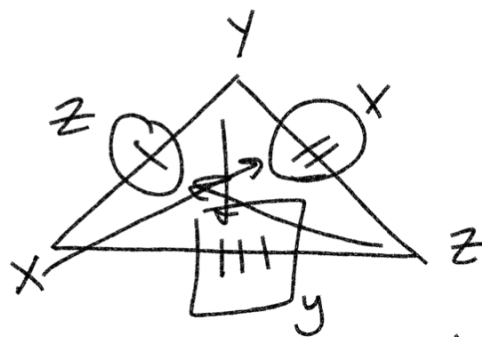
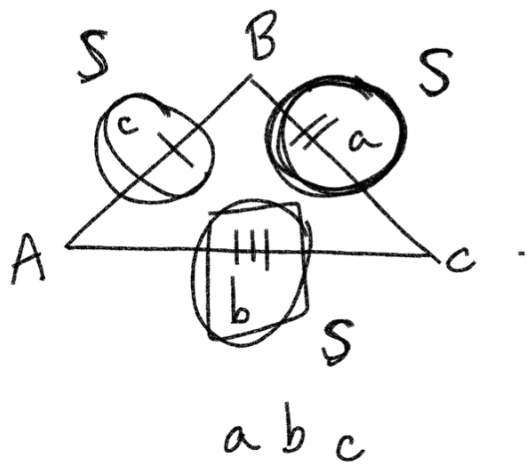


Ensure

- 1.) You have on representative of each letter
- 2.) One must be a side (lowercase)



$a B b$ not congruent



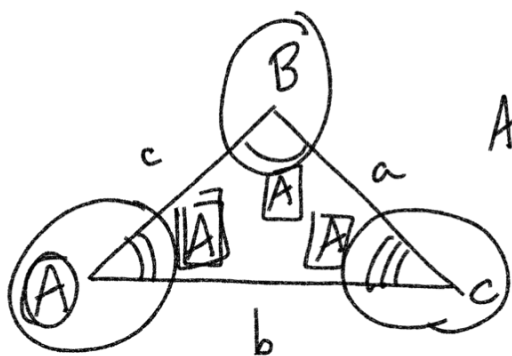
Yes! are congruent

Side Side Side

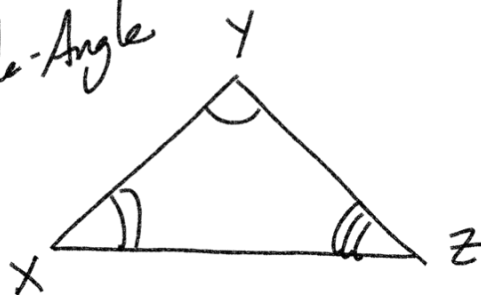
$$\begin{matrix} 1 & 2 & 3 \\ \Delta & C & A & B \end{matrix} \cong \begin{matrix} 2 & 3 & 1 \\ \Delta & X & Y & Z \end{matrix}$$

$$\Delta CAB \cong \Delta ZXY$$

All letters
and at least one side



AAA
Angle-Angle-Angle

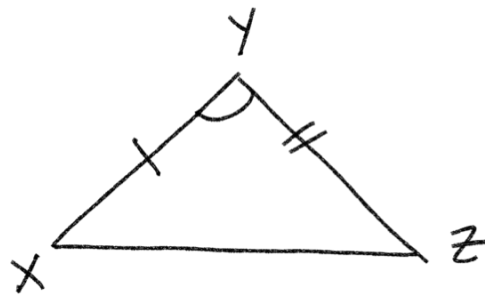
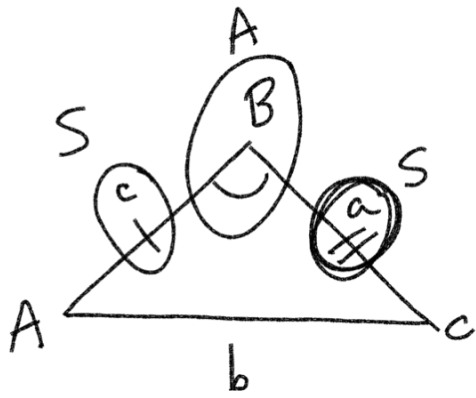


ABC

Not
congruent

ΔBAC is similar to
 ΔYXZ

- 1.) All letters represented
- 2.) At least one side

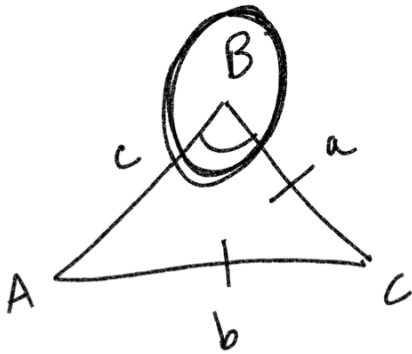


SAS aBc

$$\triangle BCA \cong \triangle YZX$$

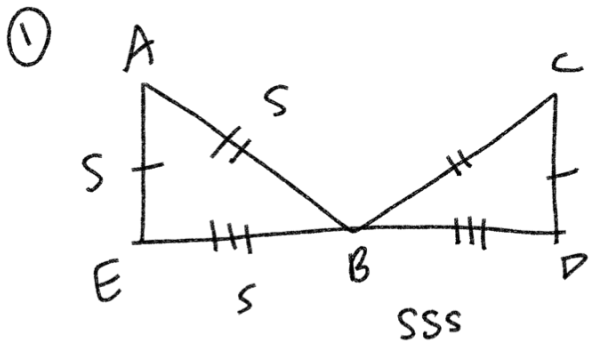
Yes!

- 1.) Each letter represented
- 2.) At least one side.

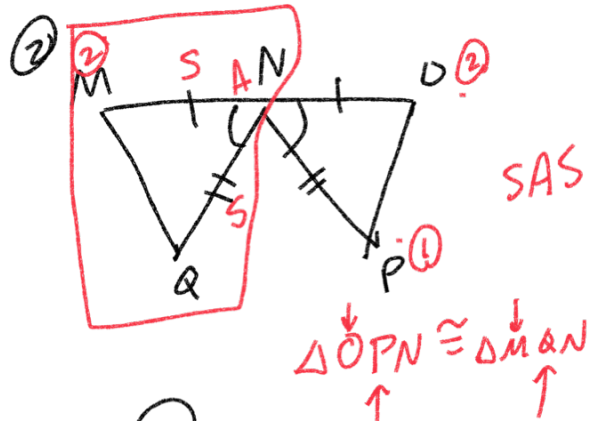


Bab

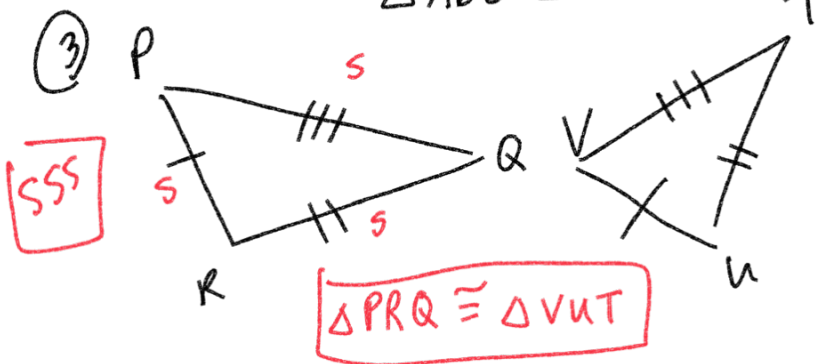
- 1.) ~~Each letter represented~~
- 2.) At least one side ✓



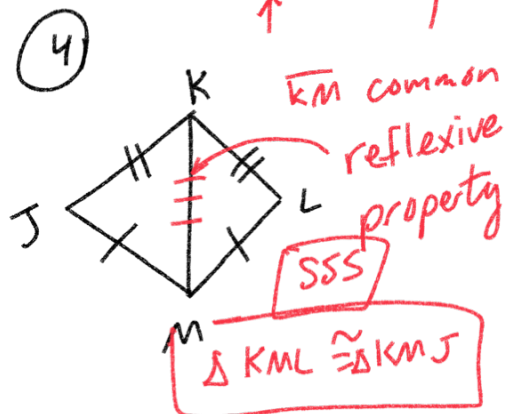
$$\triangle ABE \cong \triangle CBD$$



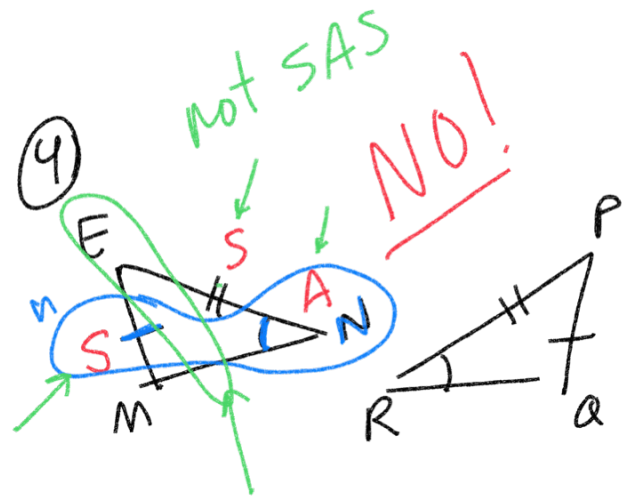
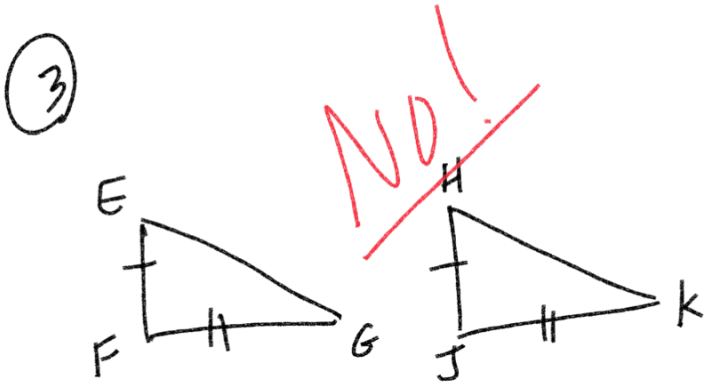
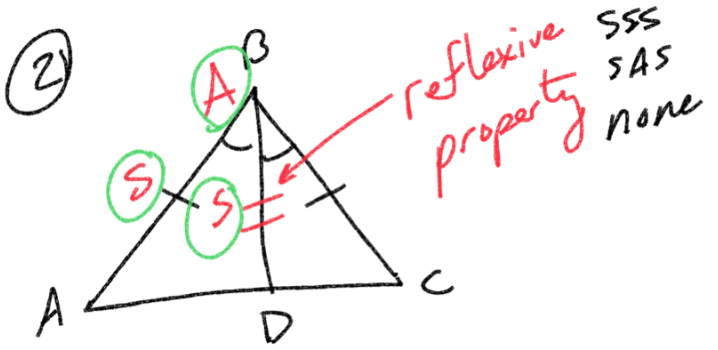
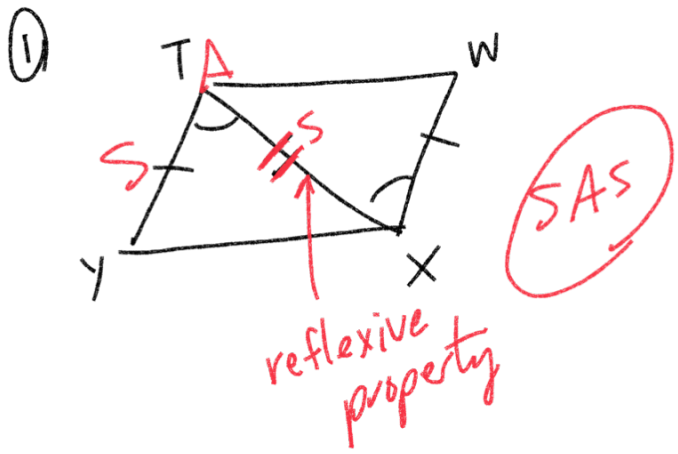
$$\triangle OPN \cong \triangle MQN$$



$$\triangle PRQ \cong \triangle VUT$$



$$\triangle KML \cong \triangle KJL$$



HW
 Ch 4.1 evens
 Ch 4.2 evens
 * Supplemental WS
 Online HW 18
 Quiz 18

HW/Quiz 16 today/tomorrow
 Test due next time