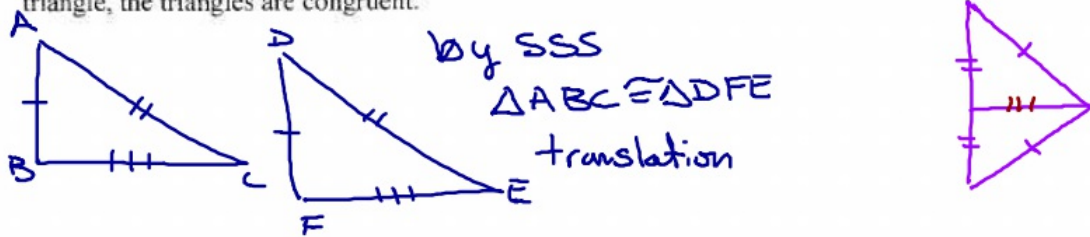


Notes - Day 4 Triangle Congruence SSS, SAS

1) Two additional type of Triangle Congruence: **ASA, AAS**

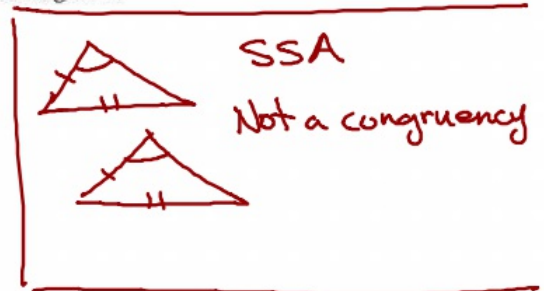
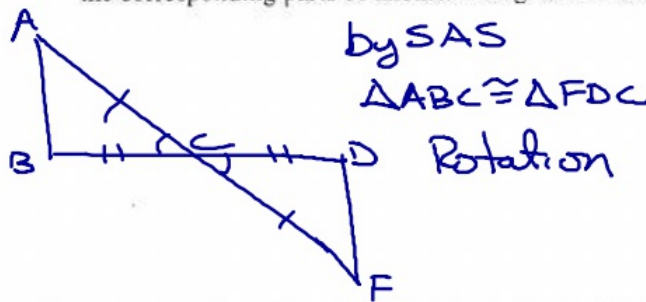
SSS (Side-Side-Side)

If three sides of one triangle are congruent to three sides of another triangle, the triangles are congruent.

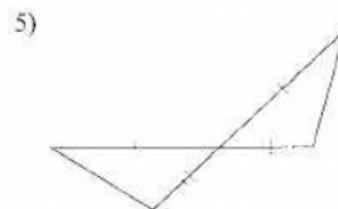
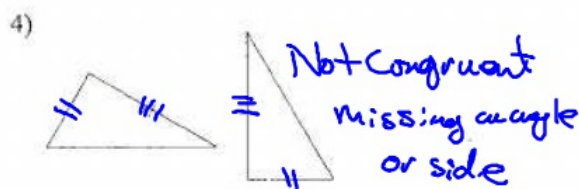
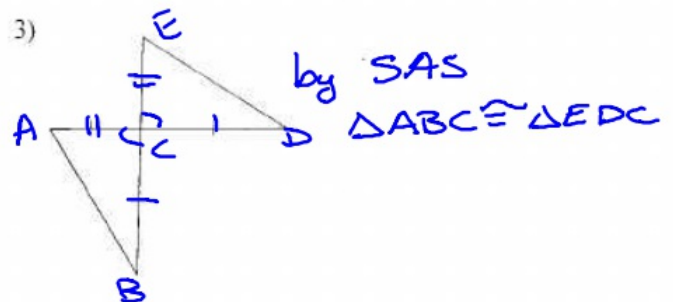
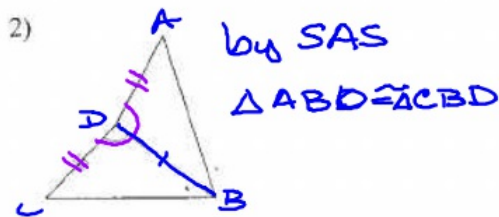


SAS (Side-Included Angle-Side)

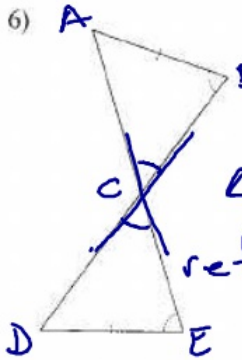
If two sides and the included angle of one triangle are congruent to the corresponding parts of another triangle, the triangles are congruent

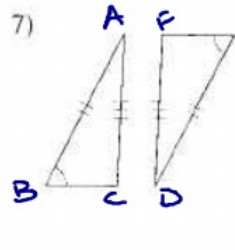


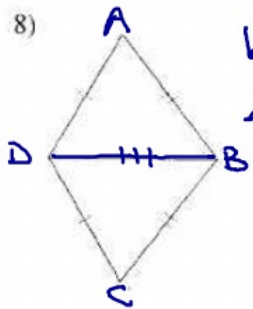
Given the following Triangles, determine if the two triangles are congruent by SSS, SAS or state that they are Not Congruent. State how you know. If they are, state the congruence and the transformation.

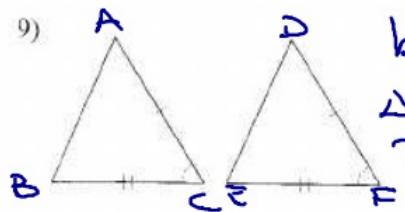


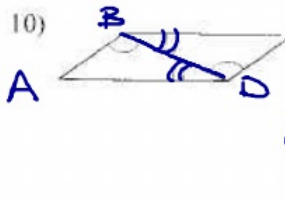
Given the following Triangles, determine if the two triangles are congruent by SSS, SAS, ASA, AAS or state that they are Not Congruent. State how you know. If they are, state the congruence and the transformation.

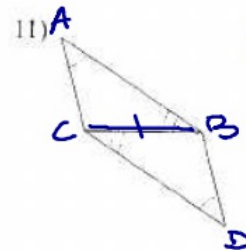
6)  by AAS (SAA)
 $\triangle ABC \cong \triangle DEC$
 reflection

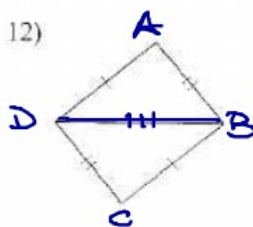
7)  Not Congruent
bad word!
 SSA

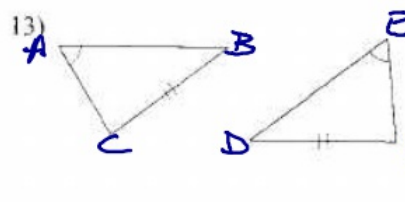
8)  by SSS
 $\triangle ABD \cong \triangle CBD$
 Reflection

9)  by SAS
 $\triangle ABC \cong \triangle DEF$
 Translation

10)  by ASA
 $\triangle ABD \cong \triangle CDB$
 Rotation

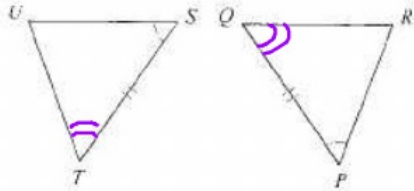
11)  by AAS
 $\triangle ABC \cong \triangle DCB$
 Rotation.

12)  by SSS
 $\triangle ABD \cong \triangle CDB$
 Rotation

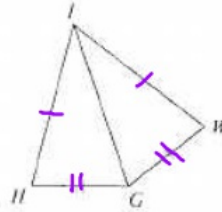
13)  Not Congruent
 Missing side
 or angle.

State what additional information is required in order to know that the triangles are congruent for the reason given.

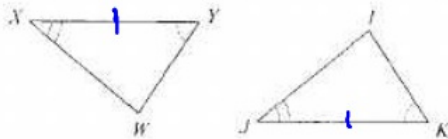
14) ASA



15) SSS



16) ASA



17) AAS

