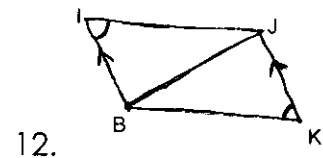
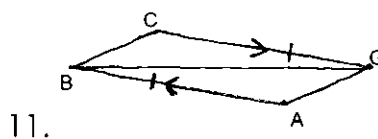
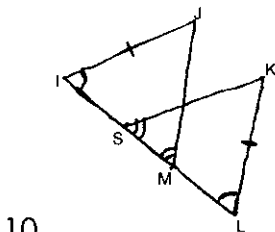
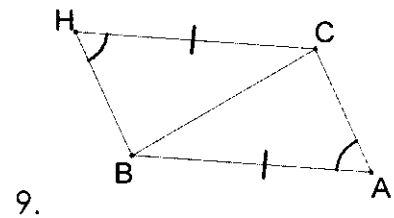
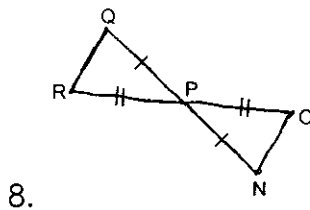
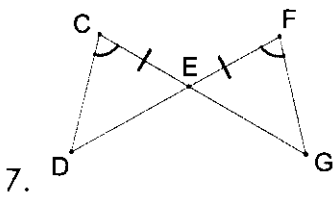
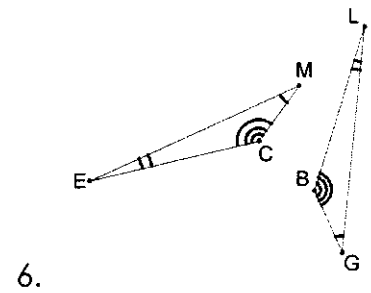
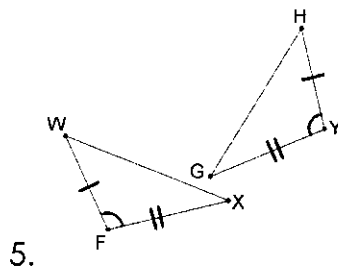
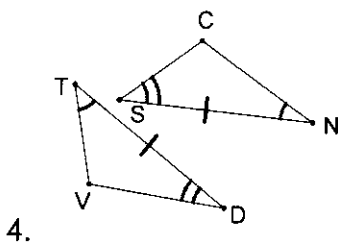
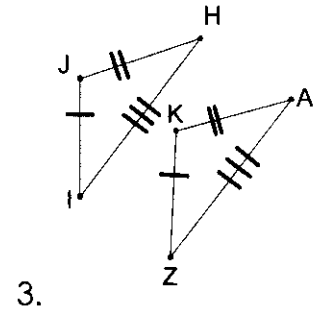
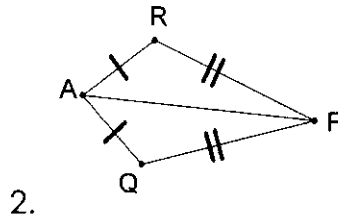
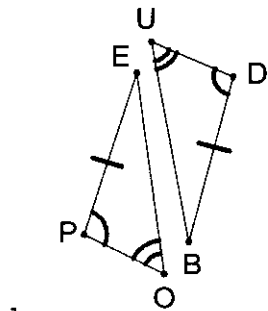


Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Congruent Triangles

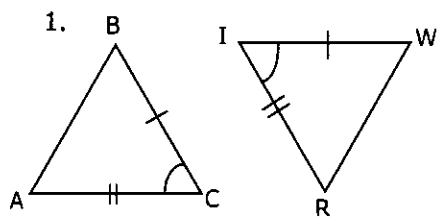
State whether each pair of triangles is congruent by *SSS*, *SAS*, *ASA*, *AAS*, or *HL*; if none of these methods work, write "none". If congruent, make a congruence statement for the triangles.



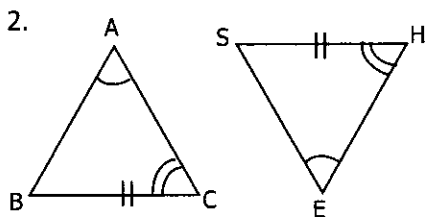
**AGS Station 1**  
**Proving Triangles Congruent: ASA, AAS, SAS, SSS**

name: \_\_\_\_\_  
 date: \_\_\_\_\_

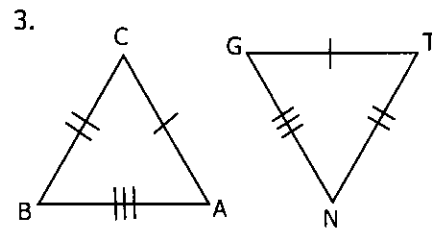
For each problem give the correct naming order of the congruent triangles. Write that name in order on the lines for the problem number (see box at bottom). Also, indicate which postulate or theorem is being used.



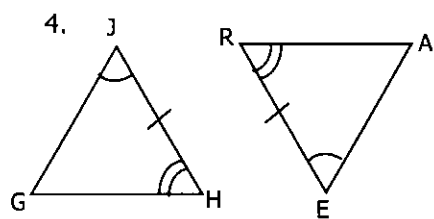
$\triangle ABC \cong \triangle$  \_\_\_\_\_ by \_\_\_\_\_



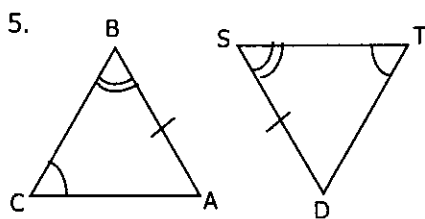
$\triangle ABC \cong \triangle$  \_\_\_\_\_ by \_\_\_\_\_



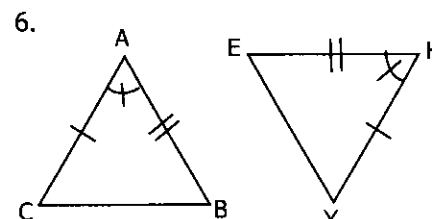
$\triangle ABC \cong \triangle$  \_\_\_\_\_ by \_\_\_\_\_



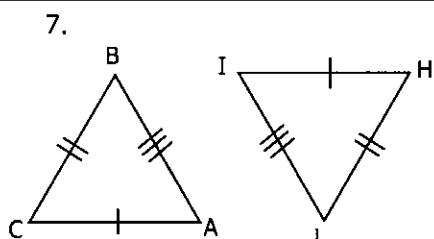
$\triangle GHJ \cong \triangle$  \_\_\_\_\_ by \_\_\_\_\_



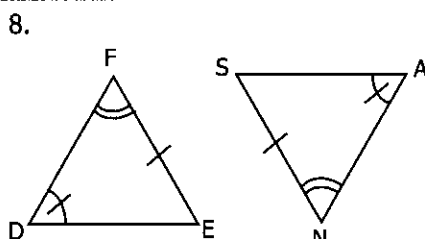
$\triangle ABC \cong \triangle$  \_\_\_\_\_ by \_\_\_\_\_



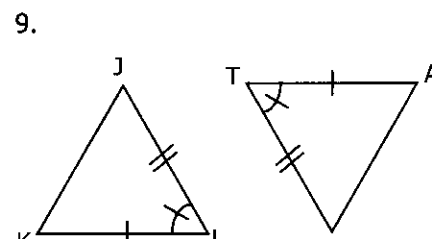
$\triangle ABC \cong \triangle$  \_\_\_\_\_ by \_\_\_\_\_



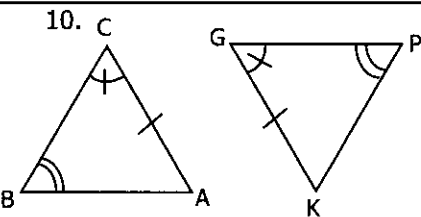
$\triangle ABC \cong \triangle$  \_\_\_\_\_ by \_\_\_\_\_



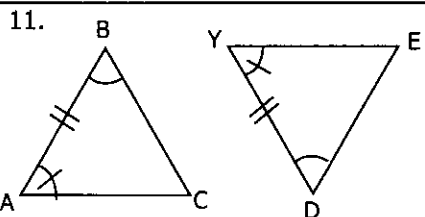
$\triangle DEF \cong \triangle$  \_\_\_\_\_ by \_\_\_\_\_



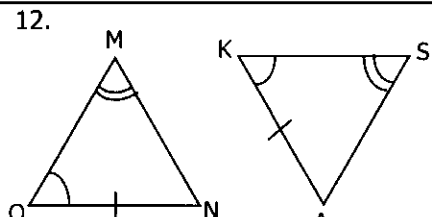
$\triangle JKL \cong \triangle$  \_\_\_\_\_ by \_\_\_\_\_



$\triangle ABC \cong \triangle$  \_\_\_\_\_ by \_\_\_\_\_



$\triangle ABC \cong \triangle$  \_\_\_\_\_ by \_\_\_\_\_



$\triangle MNO \cong \triangle$  \_\_\_\_\_ by \_\_\_\_\_

\_\_\_\_\_ O \_\_\_\_\_ N \_\_\_\_\_ S \_\_\_\_\_ E \_\_\_\_\_ I \_\_\_\_\_ T \_\_\_\_\_  
 4 4 4 8 8 \_\_\_\_\_ 8 12 \_\_\_\_\_ 12 12 2 \_\_\_\_\_ 2 2 \_\_\_\_\_ 5 \_\_\_\_\_ 5 5 9 9 9 \_\_\_\_\_ 6  
 \_\_\_\_\_ E \_\_\_\_\_ E \_\_\_\_\_ O \_\_\_\_\_ N \_\_\_\_\_ U \_\_\_\_\_ T \_\_\_\_\_ E \_\_\_\_\_ I \_\_\_\_\_  
 6 6 10 \_\_\_\_\_ 10 10 1 \_\_\_\_\_ 1 1 \_\_\_\_\_ 3 \_\_\_\_\_ 3 3 7 7 \_\_\_\_\_ 7 \_\_\_\_\_ 11 11 \_\_\_\_\_ 11

(When you are done with the puzzle, there are: 3 SAS, 5 AAS, 2 ASA, and 2 SSS instances.)