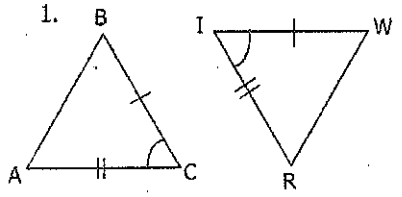
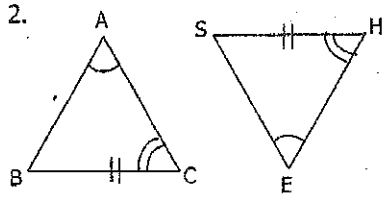
Geometry preAP
Proving Triangles Congruent: ASA, AAS, SAS, SSS

name: Key
date: _____

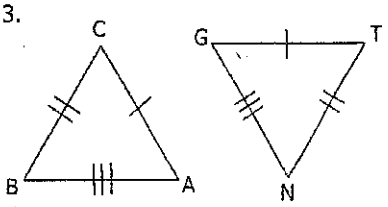
For each problem give the correct naming order of the congruent triangles. Write that name in order on the lines for the problem number (see box at bottom). Also, indicate which postulate or theorem is being used.

1. 

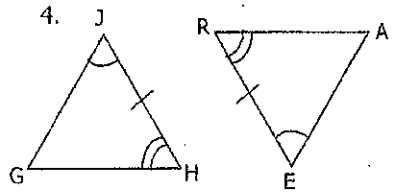
$\Delta ABC \cong \Delta$ RWI by SAS

2. 

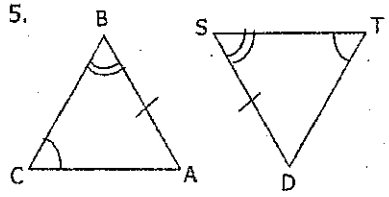
$\Delta ABC \cong \Delta$ ESH by AAS

3. 

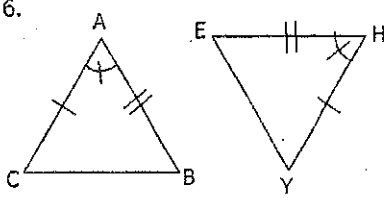
$\Delta ABC \cong \Delta$ GNT by SSS

4. 

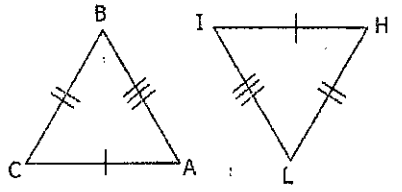
$\Delta GHJ \cong \Delta$ ARE by ASA

5. 

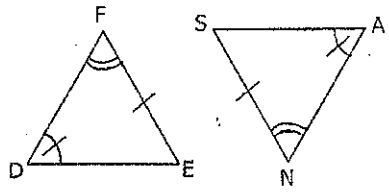
$\Delta ABC \cong \Delta$ DST by AAS

6. 

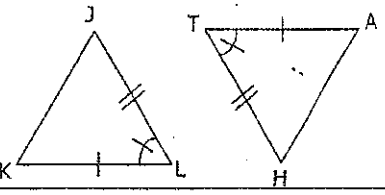
$\Delta ABC \cong \Delta$ HEY by SAS

7. 

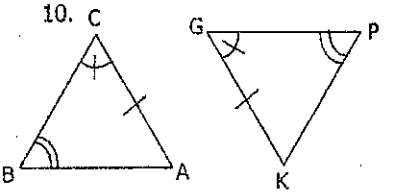
$\Delta ABC \cong \Delta$ ILH by SSS

8. 

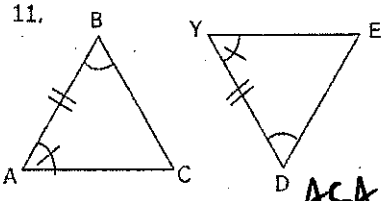
$\Delta DEF \cong \Delta$ ASN by AAS

9. 

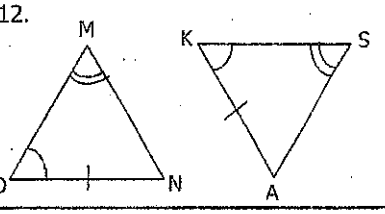
$\Delta JKL \cong \Delta$ HAT by SAS

10. 

$\Delta ABC \cong \Delta$ KPG by AAS

11. 

$\Delta ABC \cong \Delta$ YDE by ~~AAS~~ ASA

12. 

$\Delta MNO \cong \Delta$ SAY by AAS

4	4	4	8	8	O	8	12	N	12	12	2	S	2	2	E	5	I	5	5	9	9	9	T	6

6	6	10	E	E	10	10	1	O	1	1	N	3	U	3	3	7	7	T	7	E	11	11	I	11

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