

GEOMETRY  
WS Congruent Triangle Proofs Review

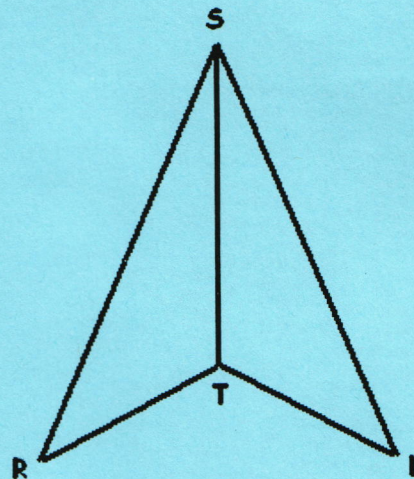
NAME \_\_\_\_\_  
Period \_\_\_\_\_

Complete each of the following proofs:

GIVEN:  $\overline{SR} \cong \overline{SL}$   
 $\angle RST \cong \angle LST$

PROVE:  $\triangle RST \cong \triangle LST$

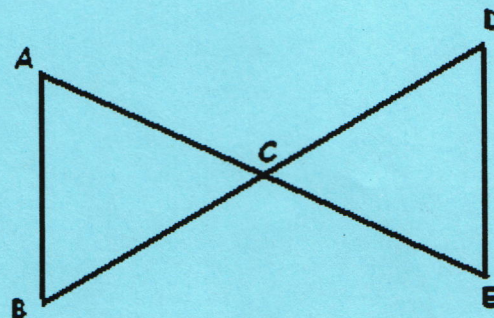
STATEMENTS	REASONS
1. $\overline{SR} \cong \overline{SL}$	1. _____
2. _____	2. Given
3. _____	3. Reflexive property
4. _____	4. _____



GIVEN:  $\angle A \cong \angle E$   
 $\overline{AC} \cong \overline{EC}$

PROVE:  $\triangle ABC \cong \triangle EDC$

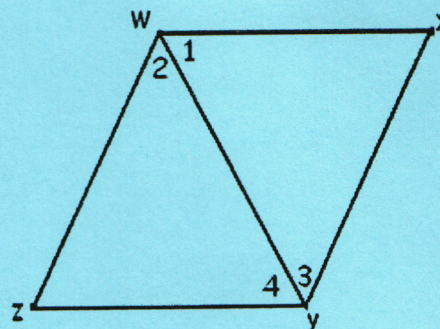
STATEMENTS	REASONS
1. _____	1. Given
2. $\angle A \cong \angle E$	2. _____
3. $\angle ACB \cong \angle ECD$	3. _____
4. _____	4. _____



GIVEN:  $\overline{WX} \parallel \overline{YZ}$   
 $\angle X \cong \angle Z$

PROVE:  $\triangle WXY \cong \triangle YZW$

STATEMENTS	REASONS
1. $\angle X \cong \angle Z$	1. _____
2. _____	2. Given
3. $\angle 1 \cong \angle 4$	3. _____
4. $\overline{WY} \cong \overline{WY}$	4. _____
5. _____	5. _____





NAME \_\_\_\_\_

For problems 1-4 use the following picture.

If  $\triangle FUR \cong \triangle DOG$ , name the angle or side that corresponds to the given part. (4 pts)

1.  $\angle G \cong$  \_\_\_\_\_

2.  $\overline{UR} \cong$  \_\_\_\_\_

3.  $\angle U \cong$  \_\_\_\_\_

4.  $\overline{DG} \cong$  \_\_\_\_\_

For problems 5 and 6 draw a picture.

Suppose  $\triangle ABC \cong \triangle XYZ$ . If  $m\angle A = 37$  and  $m\angle Z = 108$ , find the following angle measures: (2pts)

5.  $m\angle C =$  \_\_\_\_\_

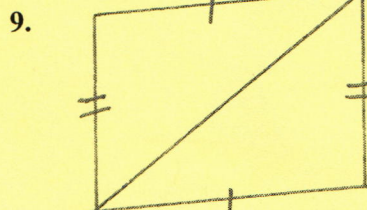
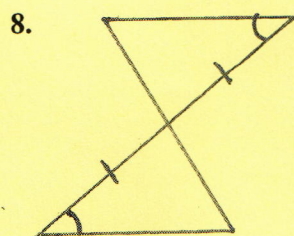
6.  $\angle Y =$  \_\_\_\_\_

7.  $\triangle ABC \cong \triangle XYZ$  and  $AB = 2x+7$ ,  $XY = 6x-15$ . Find the value of  $x$ .

7. \_\_\_\_\_

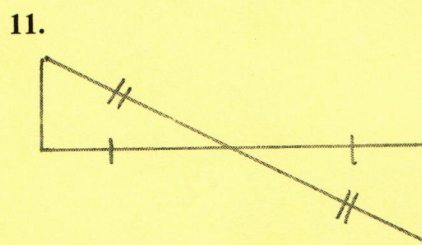
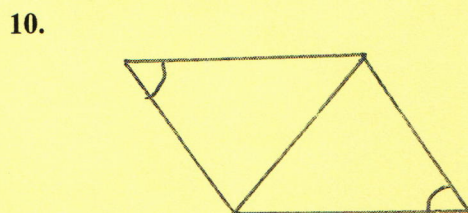
Write the correct postulate that proves the triangles congruent.

SSS SAS ASA AAS



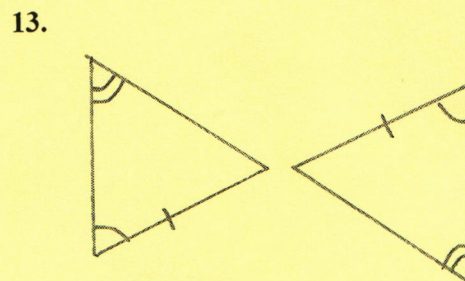
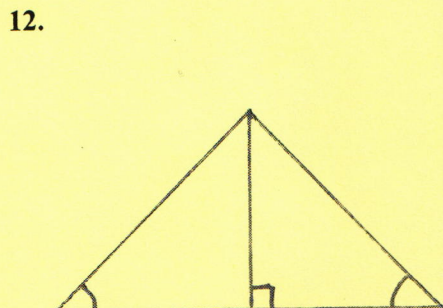
8. \_\_\_\_\_

9. \_\_\_\_\_



10. \_\_\_\_\_

11. \_\_\_\_\_



14. \_\_\_\_\_