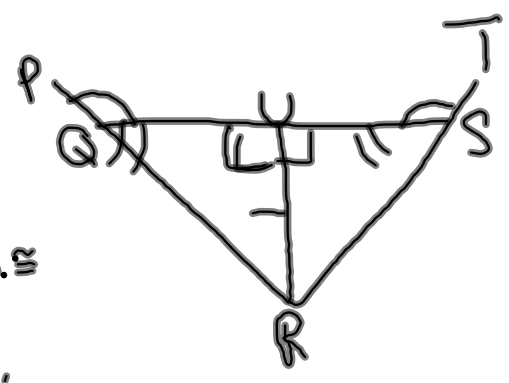


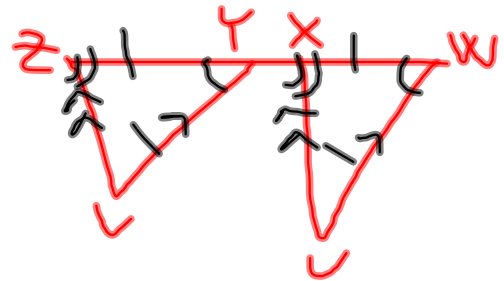
Statement	Reason
1. $\angle QUR + \angle SUR = 90^\circ$	1. Given
2. $\angle QUR \cong \angle SUR$	2. Rt. \angle thm.
3. $\overline{UR} \cong \overline{UR}$	3. Reflexive prop. \cong
4. $\angle RQU \cong \angle RSU$	4. Given
5. $m\angle RQU = m\angle RSU$	5. Def. supp. \angle 's
$m\angle UQR = 180^\circ$ $m\angle TSU + m\angle RSU = 180^\circ$	6. Subst. prop. =
$m\angle RQU + m\angle RSU = 180^\circ$ $m\angle TSU + m\angle UQR = 180^\circ$	7. \cong supp. thm.
8. $\triangle RQU \cong \triangle RSU$	8. AAS



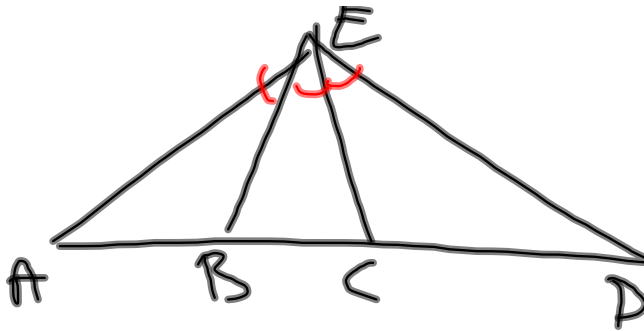
5. Given: $\overline{WU} \parallel \overline{YV}$, $\overline{XU} \parallel \overline{ZV}$
 $\overline{WX} \cong \overline{YZ}$

Prove: $\triangle WXU \cong \triangle YZV$

Statement	Reason
1. $\overline{WU} \parallel \overline{YV}$	1. Given
2. $\angle ZYV \cong \angle XUW$	2. corr. \angle 's post.
3. $\overline{WX} \cong \overline{YZ}$	3. Given
4. $\overline{XU} \parallel \overline{ZV}$	4. Given
5. $\angle YZV \cong \angle WXU$	5. corr. \angle 's post.
6. $\triangle WXU \cong \triangle YZV$	6. ASA



6.



1. Given
2. Def. of \angle bisector
3. Given
4. Defn. of \angle bisector
5. subs.
6. Defn. of linear pair
7. Defn. of lin. pair
8. subs.
9. Given
10. subst.
11. Given
12. ASA

0-3 +
4-6 -
79 -

4.6 CPC TC

Congruent Parts of congruent triangles are congruent.

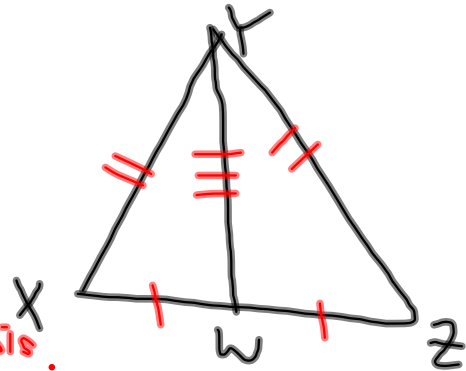
- Used after the triangles are proved congruent.

Ex: Given: \overline{YW} bisects \overline{XZ}

$$\overline{XY} \cong \overline{YZ}$$

Prove: $\angle XYW \cong \angle ZYW$

Statement	Reason
1. \overline{YW} bisects \overline{XZ}	1. Given.
2. $\overline{ZW} \cong \overline{XW}$	2. defn of seg. bis.
3. $\overline{XY} \cong \overline{YZ}$	3. Given
4. $\overline{YW} \cong \overline{YW}$	4. Refl. prop.
5. $\triangle XYW \cong \triangle ZYW$	5. SSS
6. $\angle XYW \cong \angle ZYW$	6. CPCTC



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