

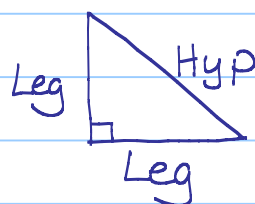
So far

- ~ Δ postulates:
- SSS
 - ASA ($2\angle \cong, 2s \cong, 2a \cong$)
 - SAS ($2s \cong, 2\angle \cong, 2s \cong$)
 - HL (rt \angle , Hyp, leg)

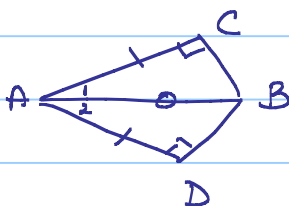
Now looking at rt Δ

Def of rt Δ ? has rt \angle

- 1) rt \angle (not \cong Ls)
- 2) Hypotenuse
- 3) Leg



Ex 1 G: $\overline{BC} \perp \overline{AC}, \overline{BD} \perp \overline{AD}, \overline{AC} \cong \overline{AD}$
 P: \overline{AB} bis $\angle CAD$

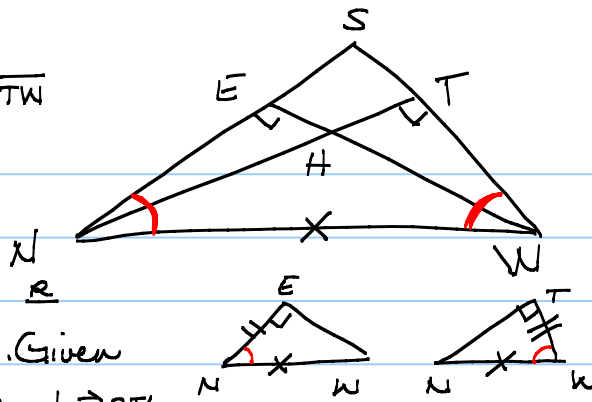


S

R

- | | | |
|-------------|---|--|
| | 1. $\overline{BC} \perp \overline{AC}, \overline{BD} \perp \overline{AD}$ | 1. GIVEN |
| rt \angle | 2. $\angle ACB$ & $\angle ADB$ rt \angle s | 2. $\perp \Rightarrow$ rt \angle s |
| H | 3. $\overline{AB} \cong \overline{AB}$ | 3. ref |
| L | 4. $\overline{AC} \cong \overline{AD}$ | 4. Given |
| | 5. $\Delta ACB \cong \Delta ADB$ | 5. HL (2 3 4) |
| | 6. $\angle 1 \cong \angle 2$ | 6. CPCTC (5) |
| | 7. \overline{AB} bis $\angle CAD$ | 7. $\cong \angle$ s \Rightarrow \angle bis |

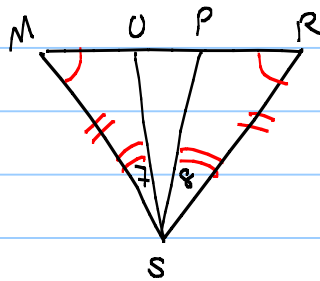
Ex 2 Q: $\overline{WE} \perp \overline{SN}$, $\overline{NT} \perp \overline{SW}$, $\overline{EN} \cong \overline{TW}$
 P: $\overline{SN} \cong \overline{SW}$



- S
1. $\overline{WE} \perp \overline{SN}$, $\overline{NT} \perp \overline{SW}$ 1. Given
 2. $\angle NEW$ & $\angle WTN$ r.t.l.s 2. $\perp \Rightarrow$ r.t.l.s
 3. $\overline{NW} \cong \overline{WN}$ 3. REF
 4. $\overline{EN} \cong \overline{TW}$ 4. GIVEN
 5. $\triangle NEW \cong \triangle WTN$ 5. HL (234)
 6. $\angle ENW \cong \angle TWN$ 6. CPCTC (5)
 7. $\overline{SN} \cong \overline{SW}$ 7. $\triangle \Rightarrow \sphericalangle$

Mixed Practice

1. Q: $\angle 7 \cong \angle 8$
 $\angle M \cong \angle R$
 C: $\triangle MOS \cong \triangle RPS$



ASA

- | | |
|--|---|
| <p><u>S</u></p> <ol style="list-style-type: none"> 1. $\angle M \cong \angle R$ 2. $\overline{MS} \cong \overline{RS}$ | <p><u>R</u></p> <ol style="list-style-type: none"> 1. GIVEN 2. $\triangle \Rightarrow \sphericalangle$ <p><u>KNOWN</u> <u>SAY</u></p> |
|--|---|