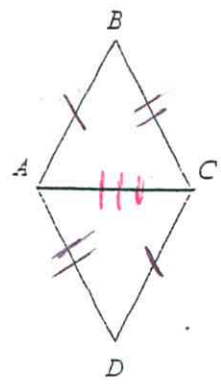


20.



Given: $\overline{AB} \cong \overline{CD}$
 $\overline{BC} \cong \overline{AD}$

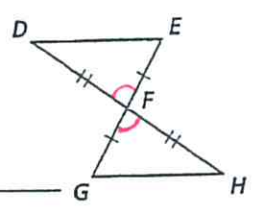
Prove:

$$\Delta ABC \cong \Delta CDA$$

S	J
1. $\overline{AB} \cong \overline{CD}$, $\overline{BC} \cong \overline{AD}$	1. Given
2. $\overline{AC} \cong \overline{CA}$	2. Reflexive PC
3. $\Delta ABC \cong \Delta CDA$	3. SSS

21.

Given: $\overline{EF} \cong \overline{FG}$, $\overline{DF} \cong \overline{FH}$
Prove: $\Delta DFE \cong \Delta HFG$

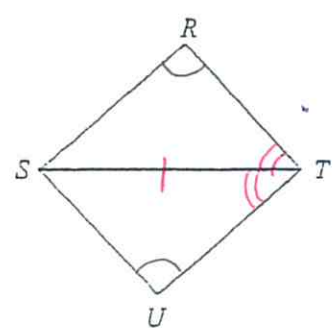


S	J
1. $\overline{EF} \cong \overline{FG}$, $\overline{DF} \cong \overline{FH}$	1. Given
2. $\angle DFE \cong \angle HFG$	2. Vertical $\angle$'s $\cong$
3. $\Delta DFE \cong \Delta HFG$	3. SAS

2. Given: $\overline{ST}$ bisects $\angle RTU$

~~$\angle RTS \cong \angle UTS$~~ $\angle R \cong \angle U$

Prove $\Delta RST \cong \Delta UST$



1. $\overline{ST}$ bisects $\angle RTU$
 $\angle R \cong \angle U$
2. $\angle RTS \cong \angle UTS$
3. $\overline{ST} \cong \overline{ST}$
4. $\Delta RST \cong \Delta UST$

- | S | J |
|---|-----------------------------|
| | 1. Given |
| | 2. def of $\angle$ bisector |
| | 3. reflexive PC |
| | 4. AAS |

(* If you include 3rd $\angle$ Pair, could prove by ASA)
 $\angle TSR \cong \angle TSU$