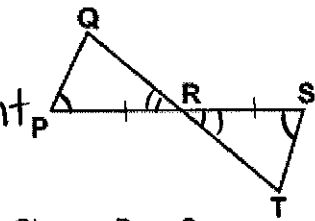


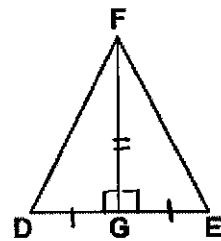
1.	S	R
① $\angle P \cong \angle S$ & R is midpoint of PS		① given
② $PR \cong SR$		② def. of midpoint
③ $\angle PRQ \cong \angle SRT$		③ vertical angles
④ $\triangle PRQ \cong \triangle SRT$		④ SAS



Given: $\angle P \cong \angle S$
 R is midpoint of \overline{PS} .

Prove: $\triangle PQR \cong \triangle SRT$

2.	S	R
① $FG \perp DE$ & G is midpoint of DE		① given
② $\angle FGD \cong \angle FGE$		② def of \perp
③ $FG \cong FG$		③ reflexive property
④ $DG \cong EG$		④ def. of midpoint
⑤ $\triangle FGD \cong \triangle FGE$		⑤ SAS

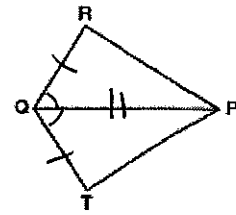


Given: $\overline{FG} \perp \overline{DE}$
 G is midpoint of \overline{DE} .

Prove: $\triangle DFG \cong \triangle EFG$

3.

S	R
① $QR \cong QT$ & $\angle RQP \cong \angle TQP$	① given
② $QP \cong QP$	② reflexive property
③ $\triangle QRP \cong \triangle QTP$	③ SAS



Given: $\overline{QR} \cong \overline{QT}$
 $\angle RQP \cong \angle TQP$

Prove: $\triangle QRP \cong \triangle QTP$

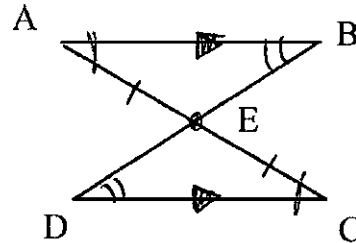
$QR \cong QT$
 $\angle RQP \cong \angle TQP$

↓
 $\triangle QRP \cong \triangle QTP$

4.

Given $\overline{AB} \parallel \overline{CD}$, E is Midpoint of \overline{AC} .

Prove $\triangle AEB \cong \triangle CED$



① $AB \parallel CD$ &
E is midpt AC

① given

② $AE \cong CE$

② def. of midpoint

③ $\angle BAE \cong \angle DCE$

③ alternate

④ $\angle ABE \cong \angle CDE$

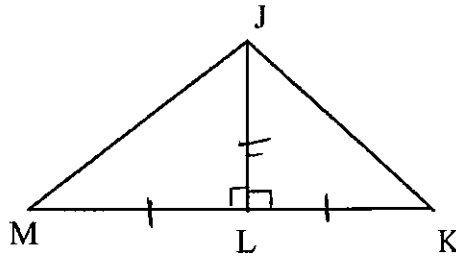
④ " " " "

⑤ $\triangle ABE \cong \triangle CDE$

⑤ AAS

5. Given $\overline{JL} \perp \overline{MK}$ and $\overline{ML} \cong \overline{LK}$.

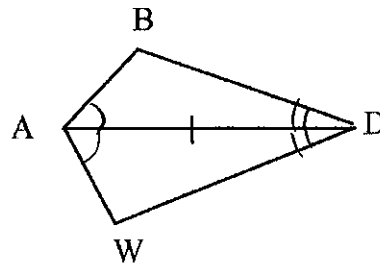
Prove: $\triangle JLM \cong \triangle JLK$



① $\overline{JK} \perp \overline{MK}$ & $\overline{ML} \cong \overline{LK}$	① given
② $\angle JLM \cong \angle JLK$	② def. of \perp
③ $\overline{JL} \cong \overline{JL}$	③ reflexive property
④ $\triangle JLM \cong \triangle JLK$	④ SAS

6. Given \overline{AD} bisects $\angle BAW$ and $\angle BDW$

Prove $\triangle BAD \cong \triangle WAD$



P	S
① \overline{AD} bisects $\angle BAW$ & $\angle BDW$	① given
② $\angle BAD \cong \angle WAD$	② def. of bisector
③ $\angle BDA \cong \angle WDA$	③ def. of bisector
④ $\overline{AD} \cong \overline{AD}$	④ reflexive property
⑤ $\triangle BDA \cong \triangle WDA$	⑤ ASA

