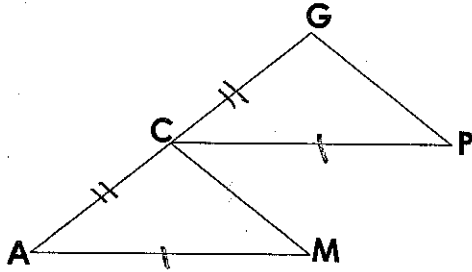


PROOF #1

Given: $\overline{AM} \cong \overline{CP}$, C is the midpoint of \overline{AG} , ~~$\overline{AM} \cong \overline{CP}$~~
 $CM \cong GP$

prove: $\triangle ACM \cong \triangle CGP$



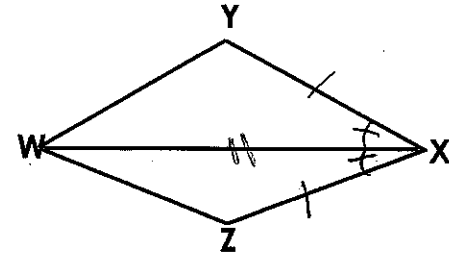
Statements	Reasons
① $\overline{AM} \cong \overline{CP}$	① GIVEN
② C Midpt AG	② GIVEN
③ $\overline{AC} \cong \overline{GC}$	③ Def Midpt
④ $\overline{CM} \cong \overline{GP}$	④ GIVEN
⑤ $\triangle ACM \cong \triangle CGP$	⑤ SSS

KEY

PROOF #2

Given: $\overline{YX} \cong \overline{XZ}$, \overline{WX} bisects $\angle YXZ$

prove: $\triangle WYX \cong \triangle WZX$

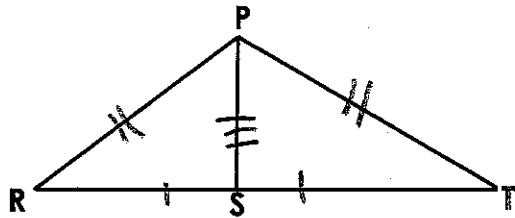


Statements	Reasons
① $\overline{YX} \cong \overline{XZ}$	① GIVEN
② \overline{WX} bisects $\angle YXZ$	② GIVEN
③ $\angle YXW \cong \angle ZXW$	③ Def bisect
④ $\overline{WX} \cong \overline{WX}$	④ Reflexive
⑤ $\triangle WYX \cong \triangle WZX$	⑤ SAS

PROOF #3

Given: S is the midpoint of \overline{RT} , $\overline{PR} \cong \overline{PT}$

prove: $\triangle PRS \cong \triangle PTS$

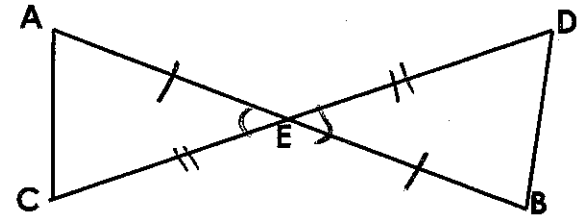


Statements	Reasons
① S Mdpt RT	① Given
② $RS \cong TS$	② Def of Mdpt
③ $PR \cong PT$	③ Given
④ $PS \cong PS$	④ Reflexive
⑤ $\triangle PRS \cong \triangle PTS$	⑤ SSS

PROOF #4

Given: E is the midpoint of \overline{AB} , E is the midpoint of \overline{CD}

prove: $\triangle AEC \cong \triangle BED$

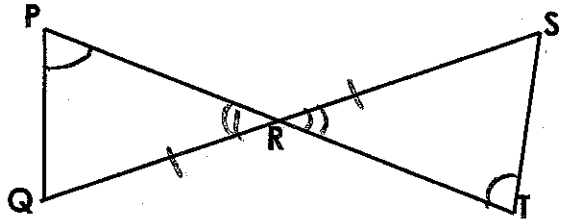


Statements	Reasons
① E Mdpt AB & CD	① Given
② $AE \cong BE$ $CE \cong DE$	② Def of Mdpt
③ $\angle AEC \cong \angle BED$	③ VA \cong
④ $\triangle AEC \cong \triangle BED$	④ SAS

PROOF #5

Given: R is the midpoint of \overline{QS} , $\angle RPQ \cong \angle RTS$

prove: $\triangle PQR \cong \triangle TSR$

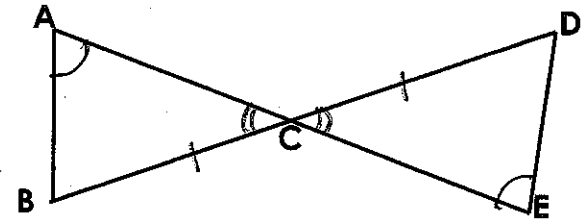


Statements	Reasons
① R midpoint QS	① GIVEN
② $QR \cong SR$	② Def. Midpt
③ $\angle RPQ \cong \angle RTS$	③ GIVEN
④ $\angle PRQ \cong \angle TRS$	④ VA \cong
⑤ $\triangle PQR \cong \triangle TSR$	⑤ AAS

PROOF #6

given: $\angle A \cong \angle E$, $\overline{BC} \cong \overline{DC}$

prove: $\triangle ABC \cong \triangle DEC$

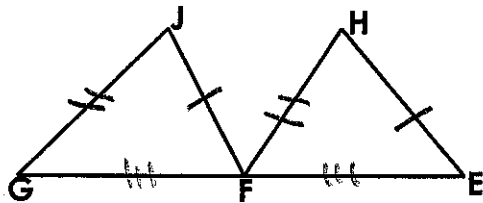


Statements	Reasons
① $\angle A \cong \angle E$ $\overline{BC} \cong \overline{DC}$	Given
② $\angle ACB \cong \angle ECD$	VA \cong
③ $\triangle ABC \cong \triangle DEC$	AAS

PROOF #7

Given: $\overline{EH} \cong \overline{FJ}$, $\overline{HF} \cong \overline{JG}$, F is the midpoint of \overline{EG}

prove: $\angle EFH \cong \angle FGJ$

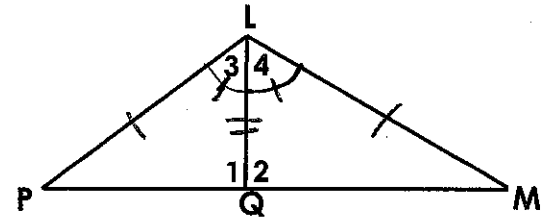


Statements	Reasons
① $\overline{EH} \cong \overline{FJ}$ $\overline{HF} \cong \overline{JG}$	Given
② F Mdpt EG	Given
③ $\overline{GF} \cong \overline{EF}$	Def of Mdpt
④ $\triangle GJF \cong \triangle FHE$	SSS
⑤ $\angle EFH \cong \angle FGJ$	CPCTC

PROOF #8

Given: $\overline{PL} \cong \overline{LM}$, QL bisects $\angle PLM$

prove: $\angle 1 \cong \angle 2$

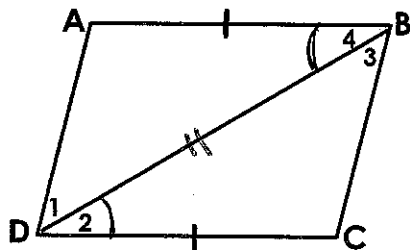


Statements	Reasons
① $\overline{PL} \cong \overline{LM}$	Given
② QL bisects $\angle PLM$	Given
③ $\angle 3 \cong \angle 4$	Def Bisect
④ $\overline{LQ} \cong \overline{LQ}$	Reflexive
⑤ $\triangle PLQ \cong \triangle MLQ$	SAS
⑥ $\angle 1 \cong \angle 2$	CPCTC

PROOF #9

Given: $\overline{AB} \cong \overline{DC}$, $\angle 2 \cong \angle 4$

prove: $\angle A \cong \angle C$

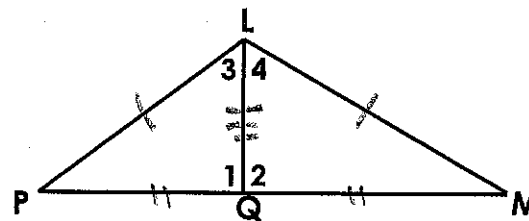


Statements	Reasons
① $\overline{AB} \cong \overline{DC}$ $\angle 2 \cong \angle 4$	① Given
② $\overline{BD} \cong \overline{BD}$	② Reflexive
③ $\triangle ABD \cong \triangle CDB$	③ SAS
④ $\angle A \cong \angle C$	④ CPCTC

PROOF #10

Given: $\overline{PL} \cong \overline{ML}$, Q is the midpoint of \overline{PM}

prove: $\angle 3 \cong \angle 4$



Statements	Reasons
① $\overline{PL} \cong \overline{ML}$	① Given
② Q mdpt \overline{PM}	② Given
③ $\overline{PQ} \cong \overline{MQ}$	③ Def Mdpt
④ $\overline{LQ} \cong \overline{LQ}$	④ Reflexive
⑤ $\triangle PLQ \cong \triangle MLQ$	⑤ SSS
⑥ $\angle 3 \cong \angle 4$	⑥ CPCTC

