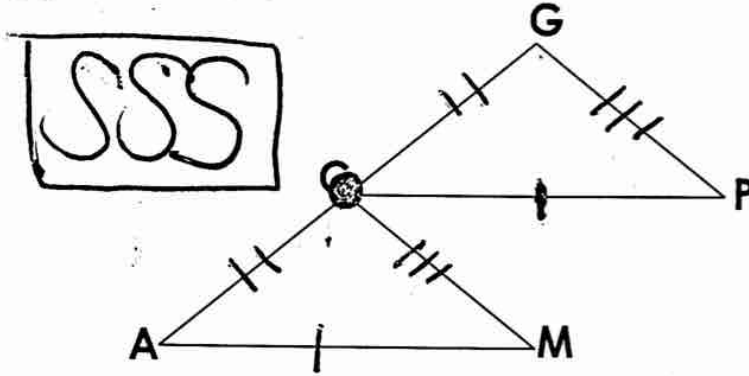


PROOF #1

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

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

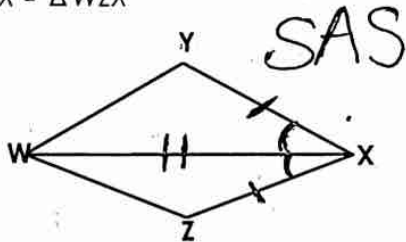


Statements	Reasons
$\overline{AM} \cong \overline{CP}$	given
C is the midpt of \overline{AG}	given
$\overline{AC} \cong \overline{GC}$	defn. of midpoint
$\overline{CM} \cong \overline{GP}$	given
$\triangle ACM \cong \triangle CGP$	SSS

PROOF #2

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

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

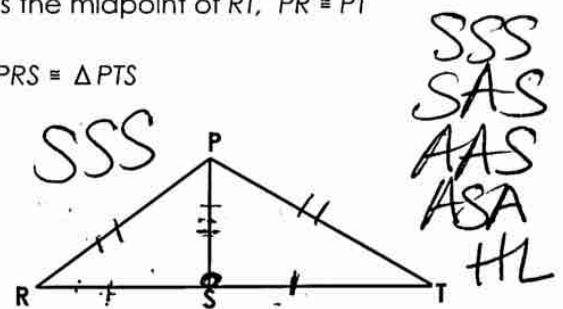


Statements	Reasons
$\overline{YX} \cong \overline{XZ}$	given
\overline{WX} bisects $\angle YXZ$	given
$\angle YXW \cong \angle XZW$	defn. of bisects
$\overline{WX} \cong \overline{WX}$	reflexive property

PROOF #3

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

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

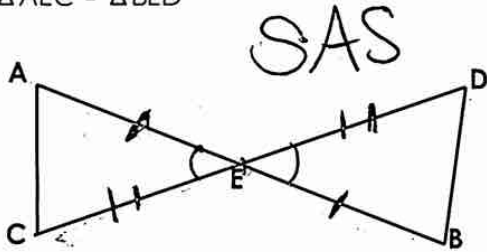


Statements	Reasons
S is midpt RT	given
$\overline{PR} \cong \overline{PT}$	given
$\overline{RS} \cong \overline{TS}$	defn. of midpoint
$\overline{PS} \cong \overline{PS}$	Reflexive
$\triangle PRS \cong \triangle PTS$	SSS

PROOF #4

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

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

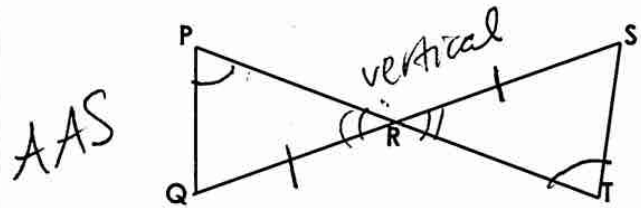


Statements	Reasons
E is midpt of AB	given
$AE \cong BE$	defn. of midpoint
E is midpt of CD	given
$CE \cong DE$	defn. of midpoint
$\angle AEC \cong \angle BED$	vertical
$\triangle AEC \cong \triangle BED$	SAS

PROOF #5

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

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

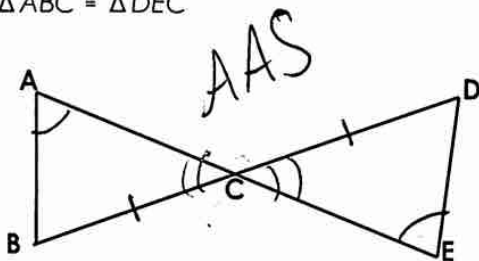


Statements	Reasons
R is midpt of QS	given
$QR \cong SR$	defn. of midpt.
$\angle RPQ \cong \angle RTS$	given
$\angle PRQ \cong \angle TRS$	vertical
$\triangle PQR \cong \triangle TSR$	AAS

PROOF #6

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

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



Statements	Reasons
$\angle A \cong \angle E$	given
$BC \cong DC$	given
$\angle ACB \cong \angle ECD$	vertical angles
$\triangle ABC \cong \triangle DEC$	AAS

PROOF #7

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

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

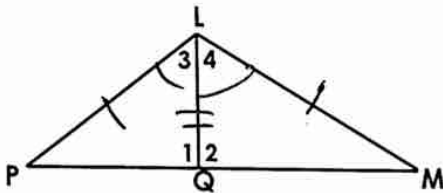


Statements	Reasons
$EH \cong FJ$	given
$HF \cong JG$	given
F is midpt \overline{EG}	given
$GF \cong EF$	defn. of midpt
$\triangle JGF \cong \triangle HFE$	SSS
$\angle EFH \cong \angle FGJ$	CPCTC

PROOF #8

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

prove: $\angle 1 = \angle 2$

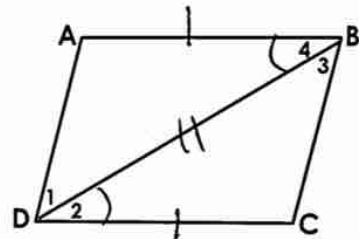


Statements	Reasons
$PL = LM$	given
QL bisects $\angle PLM$	given
$\angle 3 \cong \angle 4$	defn. of bisects
$LQ \cong LQ$	reflexive
$\triangle PLQ \cong \triangle MLQ$	SAS
$\angle 1 \cong \angle 2$	CPCTC

PROOF #9

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

prove: $\angle A = \angle C$

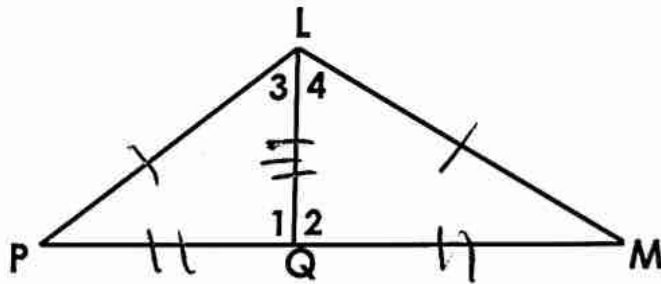


Statements	Reasons
$AB = DC$	given
$\angle 2 \cong \angle 4$	given
$DB \cong DB$	reflexive
$\triangle ABD \cong \triangle CDB$	SAS
$\angle A \cong \angle C$	CPCTC

PROOF #10

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

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



Statements	Reasons
$PL \cong ML$	given
Q is midpt PM	given
$PQ \cong MQ$	defn. of midpt
$LQ \cong LQ$	reflexive
$\triangle PLQ \cong \triangle MLQ$	SSS
$\angle 3 \cong \angle 4$	C.P.C.T.C