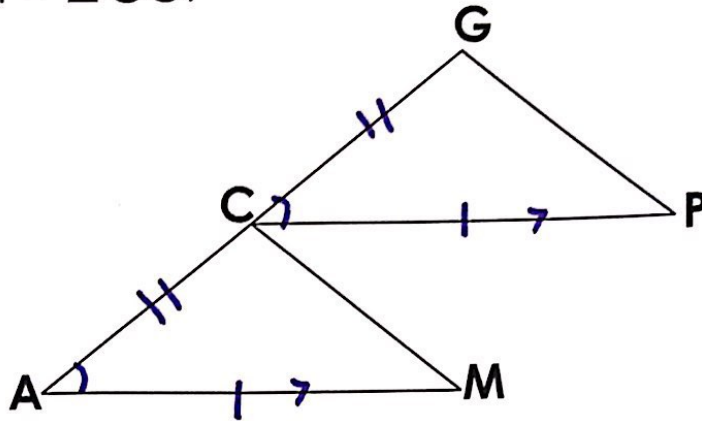


PROOF #1

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

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

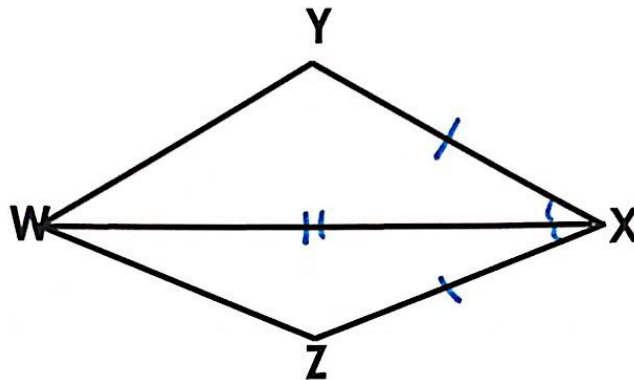


Statements	Reasons
① $\overline{AM} \cong \overline{CP}$	① Given
② C is mp of \overline{AG}	② Given
③ $\overline{AC} \cong \overline{CG}$	③ Def. of midpoint
④ $\overline{AM} \parallel \overline{CP}$	④ Given
⑤ $\angle GCP \cong \angle CAM$	⑤ if \parallel , corresponding \angle 's are \cong
⑥ $\triangle ACM \cong \triangle CGP$	⑥ SAS

PROOF #2

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

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

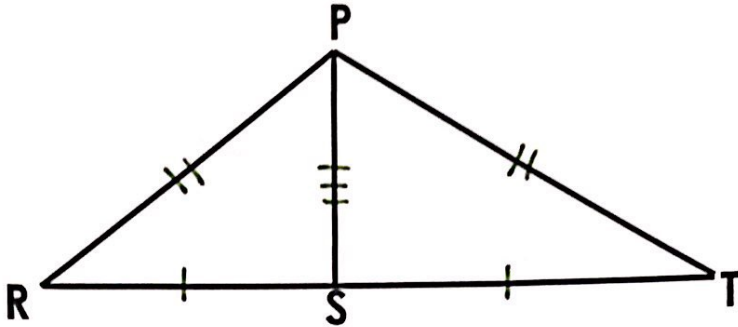


Statements	Reasons
① $\overline{YX} \cong \overline{XZ}$	① Given
② \overline{WX} bisects $\angle YXZ$	② Given
③ $\angle YXW \cong \angle ZWX$	③ def. of \angle bisector
④ $\overline{WX} \cong \overline{WX}$	④ Reflexive
⑤ $\triangle WYX \cong \triangle WZX$	⑤ SAS

PROOF #3

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

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

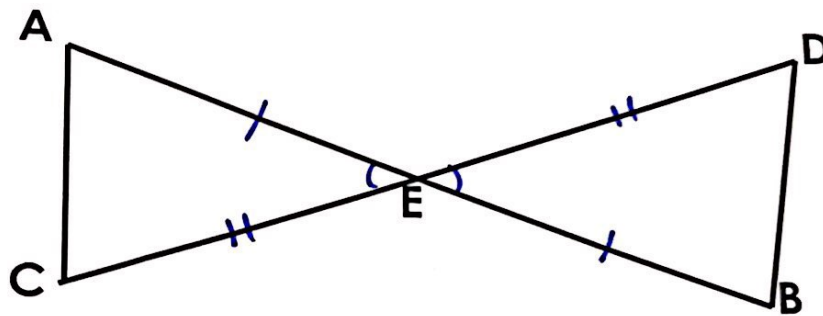


Statements	Reasons
① S is midpt of \overline{RT}	① Given
② $\overline{RS} \cong \overline{TS}$	② def. of midpt.
③ $\overline{PR} \cong \overline{PT}$	③ Given
④ $\overline{PS} \cong \overline{PS}$	④ Reflexive
⑤ $\triangle PRS \cong \triangle PTS$	⑤ SSS

PROOF #4

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

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

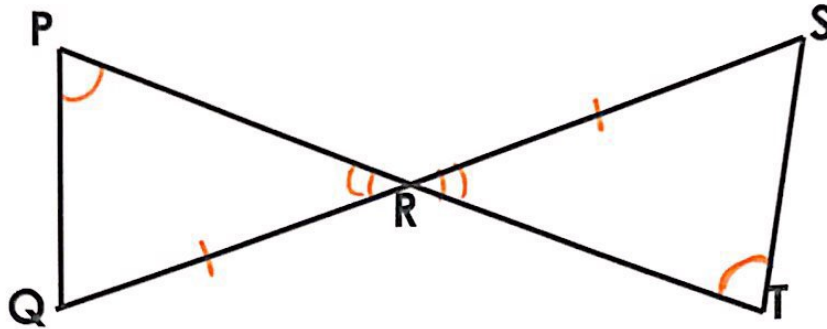


Statements	Reasons
① E is midpt of \overline{AB}	① Given
② $\overline{AE} \cong \overline{BE}$	② Def. of midpt
③ E is midpt of \overline{CD}	③ Given
④ $\overline{CE} \cong \overline{DE}$	④ Def. of midpt
⑤ $\angle AEC \cong \angle BED$	⑤ all vertical \angle 's are \cong
⑥ $\triangle AEC \cong \triangle BED$	⑥ SAS

PROOF #5

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

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

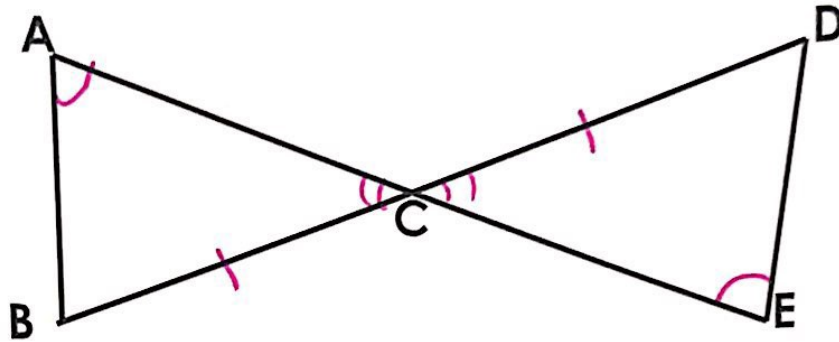


Statements	Reasons
① R is midpt of \overline{QS}	① Given
② $\overline{QR} \cong \overline{SR}$	② Def. of midpt
③ $\angle RPQ \cong \angle RTS$	③ Given
④ $\angle PRQ \cong \angle TRS$	④ all vertical \angle s are \cong
⑤ $\triangle PQR \cong \triangle TSR$	⑤ AAS

PROOF #6

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

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

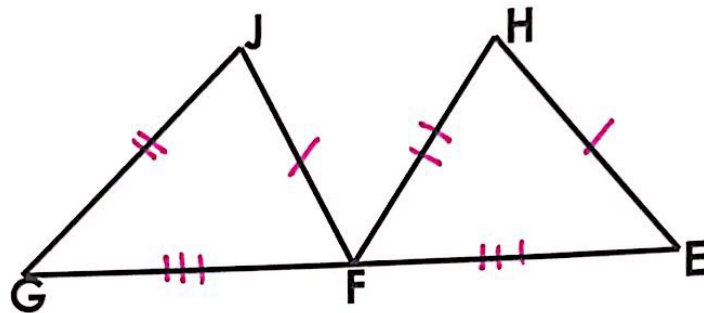


Statements	Reasons
① $\angle A \cong \angle E$	① Given
② $\overline{BC} \cong \overline{DC}$	② Given
③ $\angle ACB \cong \angle ECD$	③ all vertical \angle 's are \cong
④ $\triangle ABC \cong \triangle DEC$	④ AAS

PROOF #7

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

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

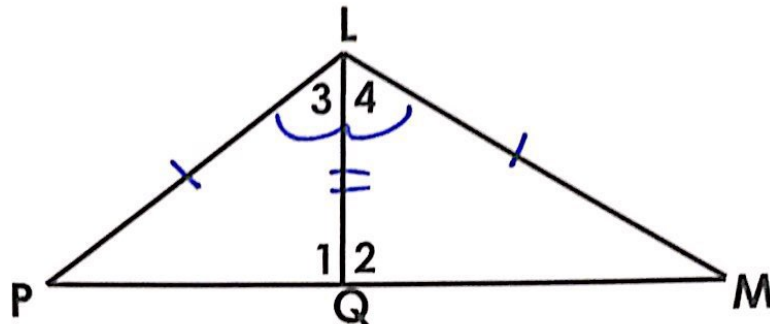


Statements	Reasons
① $\overline{EH} \cong \overline{FJ}$	① Given
② $\overline{HF} \cong \overline{JG}$	② Given
③ F is midpt of \overline{EG}	③ Given
④ $\overline{GF} \cong \overline{FE}$	④ def. of midpt
⑤ $\triangle GFJ \cong \triangle FEH$	⑤ SSS
⑥ $\angle EFH \cong \angle FGJ$	⑥ CPCTC

PROOF #8

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

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

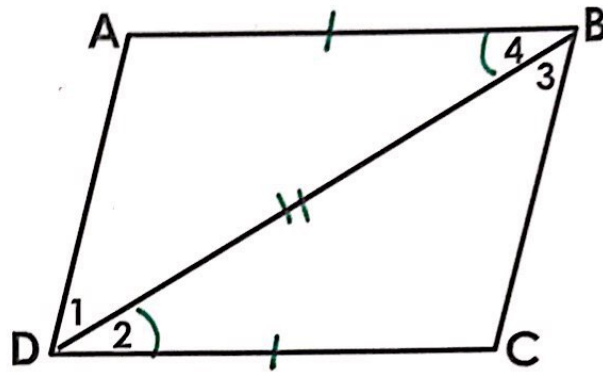


Statements	Reasons
① $\overline{PL} \cong \overline{LM}$	① Given
② QL bisects $\angle PLM$	② Given
③ $\angle 3 \cong \angle 4$	③ Def. of \angle bisector
④ $\overline{QL} \cong \overline{QL}$	④ Reflexive
⑤ $\triangle PLQ \cong \triangle MLQ$	⑤ SAS
⑥ $\angle 1 \cong \angle 2$	⑥ CPCTC

PROOF #9

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

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

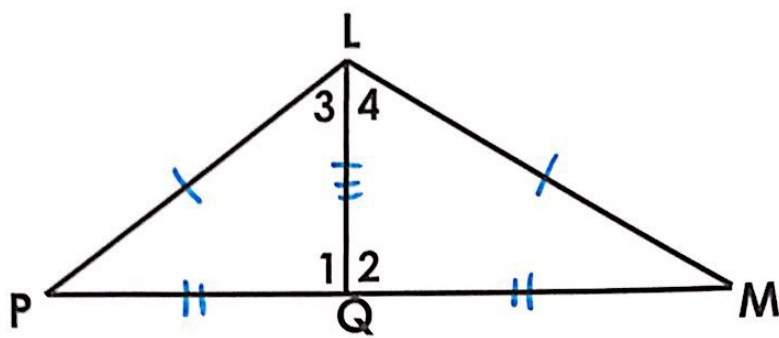


Statements	Reasons
① $\overline{AB} \cong \overline{DC}$	① Given
② $\angle 2 \cong \angle 4$	② Given
③ $\overline{DB} \cong \overline{DB}$	③ Reflexive
④ $\triangle ABD \cong \triangle CDB$	④ SAS
⑤ $\angle A \cong \angle C$	⑤ CPCTC

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 is midpt of \overline{PM}	② Given
③ $\overline{PQ} \cong \overline{MQ}$	③ Def. of midpt
④ $\overline{LQ} \cong \overline{LQ}$	④ Reflexive
⑤ $\triangle LQP \cong \triangle LQM$	⑤ SSS
⑥ $\angle 3 \cong \angle 4$	⑥ CPCTC