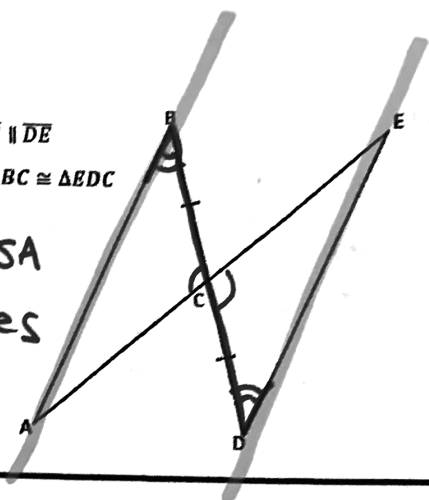


Paragraph Proof

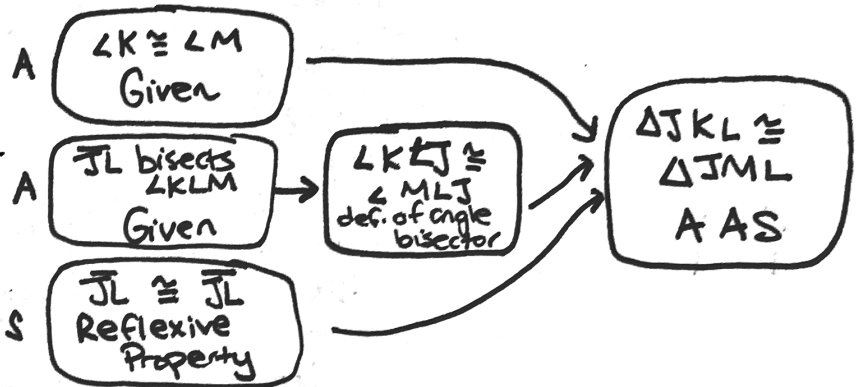
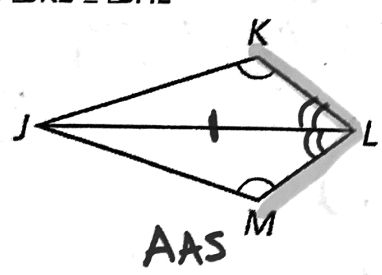
$\angle ACB \cong \angle DCE$ because they are vertical angles. It is given that $\overline{BC} \cong \overline{DC}$. It is given that $\overline{AB} \parallel \overline{DE}$. $\angle ABC \cong \angle EDC$ by Alternate Interior Angles Theorem. Therefore, $\triangle ACB \cong \triangle ECD$ by ASA.

Given: $\overline{AB} \parallel \overline{DE}$
 Prove: $\triangle ABC \cong \triangle EDC$



Given: \overline{JL} bisects $\angle KLM$
 Prove: $\triangle JKL \cong \triangle JML$

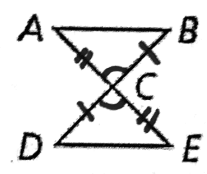
Flow Chart Proof



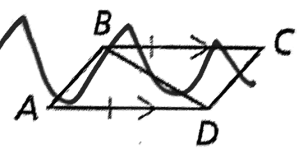
Statements | Reasons | Two-Column Proof

S	C is the midpoint of \overline{BD} $\overline{DC} \cong \overline{BC}$	Given Def. of Midpoint
A	$\angle ACB \cong \angle ECD$	vertical angles
S	C is the midpoint of \overline{AE} $\overline{AC} \cong \overline{CE}$	Given Def. of midpoint
	$\triangle ACB \cong \triangle ECD$	SAS

Given: C is the midpoint of \overline{BD} and \overline{AE} .
 Prove: $\triangle ABC \cong \triangle EDC$



Given: $\overline{BC} \parallel \overline{AD}$, $\overline{BC} \cong \overline{AD}$
 Prove: $\triangle ABD \cong \triangle CDB$

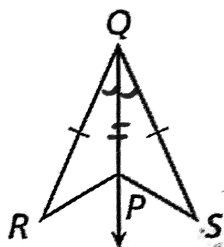


CPCCTC = "Corresponding parts of Congruent triangles are congruent"

Two-Column Proof

Given: QP bisects $\angle RQS$. $QR \cong QS$

Prove: $\triangle RQP \cong \triangle SQP$

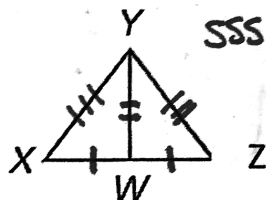


Statements	Reasons
S $\overline{QP} \cong \overline{QP}$	Reflexive Property
A QP bisects $\angle RQS$	Given
A $\angle RQP \cong \angle SQP$	def. of angle bisector
S $\overline{QR} \cong \overline{QS}$	Given
$\triangle RQP \cong \triangle SQP$	SAS

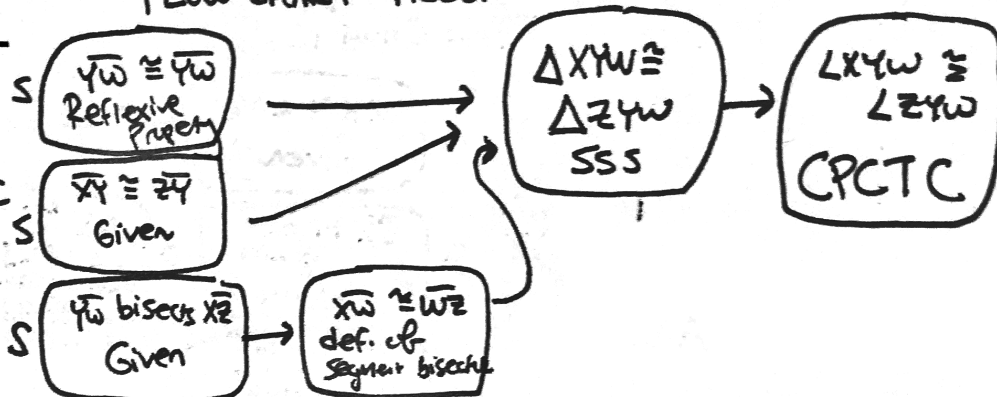
Flow Chart Proof

Given: \overline{YW} bisects $\angle XZ$, $\overline{XY} \cong \overline{ZY}$.

Prove: $\angle XYW \cong \angle ZYW$



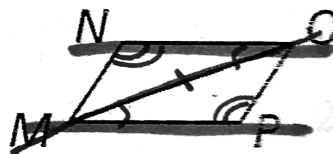
SSS \rightarrow CPCTC



Two-Column Proof

Given: $\overline{NO} \parallel \overline{MP}$, $\angle N \cong \angle P$

Prove: $\angle NMO \cong \angle POM$



Statements	Reasons
A $\overline{NO} \parallel \overline{MP}$	Given
A $\angle NOM \cong \angle PMO$	Alt. Interior \angle s
A $\angle N \cong \angle P$	Given
S $\overline{MO} \cong \overline{MO}$	Reflexive Property
$\triangle MNO \cong \triangle POM$	AAS
$\angle NMO \cong \angle POM$	CPCTC

Given: J is the midpoint of \overline{KM} and \overline{NL} .

Prove: $\angle LKJ \cong \angle NMJ$

