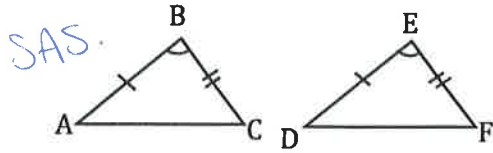


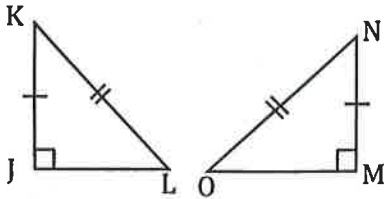
19. Given:  $\overline{AB} \cong \overline{DE}$ ,  $\overline{BC} \cong \overline{EF}$ , and  $\angle B \cong \angle E$



Prove:  $\triangle ABC \cong \triangle DEF$

Statements	Reasons
(S) $\overline{AB} \cong \overline{DE}$	Given
(A) $\angle B \cong \angle E$	Given
(S) $\overline{BC} \cong \overline{EF}$	Given
$\triangle ABC \cong \triangle DEF$	SAS

21. Given:  $\overline{JK} \cong \overline{MN}$ ,  $\overline{KL} \cong \overline{NO}$

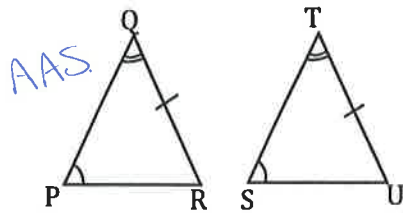


Prove:  $\triangle JKL \cong \triangle MNO$

Statements	Reasons
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23.

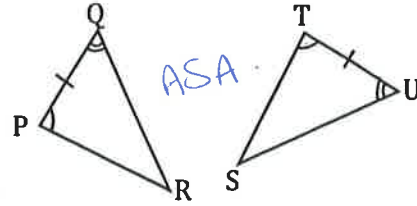
Given:  $\angle P \cong \angle S$ ,  $\angle Q \cong \angle T$ , and  $\overline{QR} \cong \overline{TU}$



Prove:  $\triangle PQR \cong \triangle STU$

Statements	Reasons
(A) $\angle P \cong \angle S$	Given
(A) $\angle Q \cong \angle T$	Given
(S) $\overline{QR} \cong \overline{TU}$	Given
$\triangle PQR \cong \triangle STU$	AAS

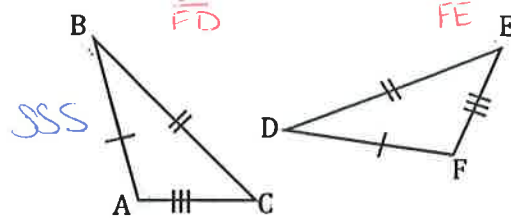
20. Given:  $\overline{PQ} \cong \overline{TU}$ ,  $\angle P \cong \angle T$ , and  $\angle Q \cong \angle U$



Prove:  $\triangle PQR \cong \triangle TUS$

Statements	Reasons
(A) $\angle P \cong \angle T$	Given
(S) $\overline{PQ} \cong \overline{TU}$	Given
(A) $\angle Q \cong \angle U$	Given
$\triangle PQR \cong \triangle TUS$	ASA

22. Given:  $\overline{AB} \cong \overline{DF}$ ,  $\overline{BC} \cong \overline{DE}$ , and  $\overline{AC} \cong \overline{EF}$

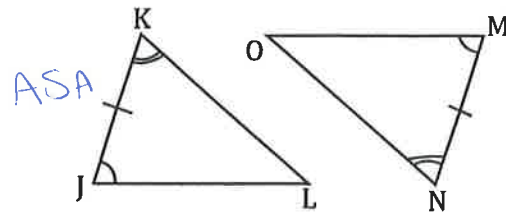


Prove:  $\triangle ABC \cong \triangle FDE$

Statements	Reasons
(S) $\overline{AB} \cong \overline{FD}$	Given
(S) $\overline{BC} \cong \overline{DE}$	Given
(S) $\overline{AC} \cong \overline{FE}$	Given
$\triangle ABC \cong \triangle FDE$	SSS

24.

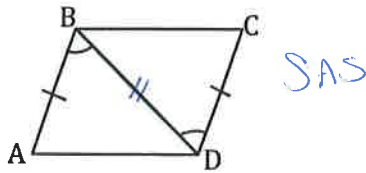
Given:  $\angle J \cong \angle M$ ,  $\overline{JK} \cong \overline{MN}$  and  $\angle K \cong \angle N$



Prove:  $\triangle JKL \cong \triangle MNO$

Statements	Reasons
(A) $\angle J \cong \angle M$	Given
(S) $\overline{JK} \cong \overline{MN}$	Given
(A) $\angle K \cong \angle N$	Given
$\triangle JKL \cong \triangle MNO$	ASA

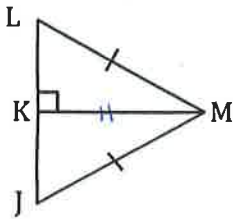
25. Given:  $\overline{AB} \cong \overline{CD}$ ,  $\angle ABD \cong \angle CDB$



Prove:  $\triangle ABD \cong \triangle CDB$

Statements	Reasons
(S) $\overline{AB} \cong \overline{CD}$	Given
(A) $\angle ABD \cong \angle CDB$	Given
(S) $\overline{BD} \cong \overline{BD}$	Reflexive prop $\cong$ Segs.
$\triangle ABD \cong \triangle CDB$	SAS

27. Given:  $\overline{LM} \cong \overline{JM}$

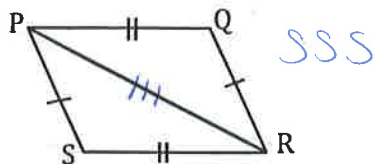


Prove:  $\triangle LKM \cong \triangle JKM$

Statements	Reasons
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29.

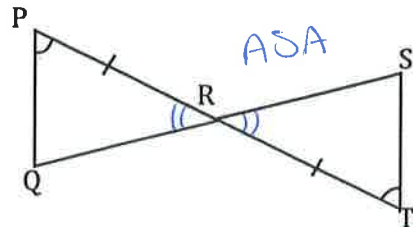
Given:  $\overline{PS} \cong \overline{QR}$ ,  $\overline{PQ} \cong \overline{SR}$



Prove:  $\triangle PRS \cong \triangle RPQ$

Statements	Reasons
(S) $\overline{PS} \cong \overline{QR}$	Given
(S) $\overline{PQ} \cong \overline{SR}$	Given
(S) $\overline{PR} \cong \overline{PR}$	reflexive prop $\cong$ Segs.
$\triangle PRS \cong \triangle RPQ$	SSS

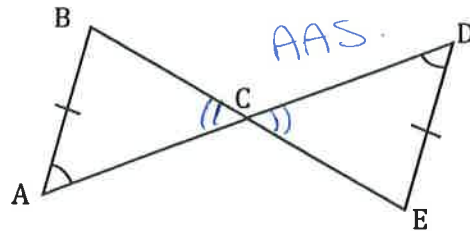
26. Given:  $\overline{PR} \cong \overline{TR}$ ,  $\angle P \cong \angle T$



Prove:  $\triangle PRQ \cong \triangle TRS$

Statements	Reasons
(A) $\angle P \cong \angle T$	Given
(S) $\overline{PR} \cong \overline{TR}$	Given
(A) $\angle PRQ \cong \angle TRS$	vertical $\angle$ 's are $\cong$
$\triangle PRQ \cong \triangle TRS$	ASA

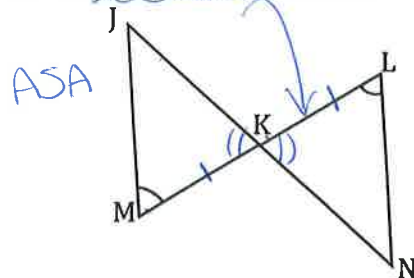
28. Given:  $\overline{AB} \cong \overline{ED}$ ,  $\angle A \cong \angle D$



Prove:  $\triangle ABC \cong \triangle DCE$

Statements	Reasons
(A) $\angle A \cong \angle D$	Given
(A) $\angle BCA \cong \angle ECD$	vertical $\angle$ 's are $\cong$
(S) $\overline{AB} \cong \overline{ED}$	Given
$\triangle ABC \cong \triangle DCE$	AAS

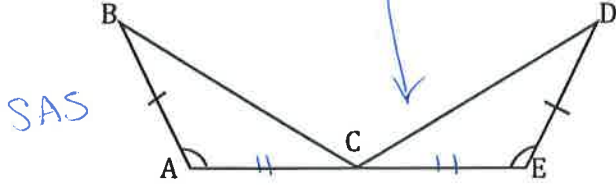
30. Given:  $\overline{JN}$  bisects  $\overline{ML}$ ,  $\angle M \cong \angle L$



Prove:  $\triangle MJK \cong \triangle LNK$

Statements	Reasons
(A) $\angle M \cong \angle L$	Given
$\overline{JN}$ bisects $\overline{ML}$	Given
(S) $\overline{MK} \cong \overline{LK}$	def of seg. bisector
(A) $\angle JKM \cong \angle LKN$	vertical $\angle$ 's are $\cong$
$\triangle MJK \cong \triangle LNK$	ASA

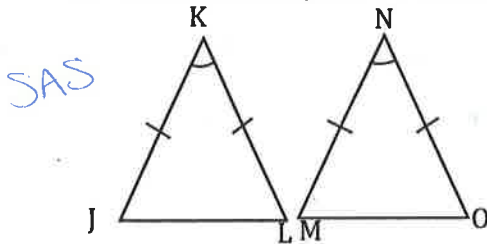
31. Given: C is the midpoint of  $\overline{AE}$ ,  $\overline{BA} \cong \overline{DE}$ , and  $\angle A \cong \angle E$



Prove:  $\triangle ABC \cong \triangle DEC$

Statements	Reasons
(S) $\overline{BA} \cong \overline{DE}$	Given
(A) $\angle A \cong \angle E$	Given
(S) C is midpt of $\overline{AE}$	Given
(S) $\overline{AC} \cong \overline{EC}$	def. midpt
$\triangle ABC \cong \triangle DEC$	SAS

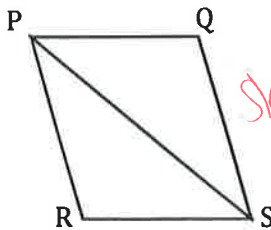
33. Given:  $\angle K \cong \angle N$ ,  $\overline{JK} \cong \overline{MN}$ ,  $\overline{KL} \cong \overline{NO}$



Prove:  $\triangle JKL \cong \triangle MNO$

Statements	Reasons
(S) $\overline{JK} \cong \overline{MN}$	Given
(A) $\angle K \cong \angle N$	Given
(S) $\overline{KL} \cong \overline{NO}$	Given
$\triangle JKL \cong \triangle MNO$	SAS

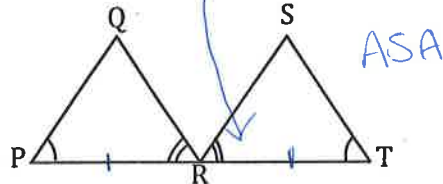
35. Given: PQRS is a parallelogram



Prove:  $\triangle RPS \cong \triangle QSP$

there is a 3rd way to prove # 36. can you find it?

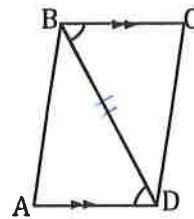
32. Given: R is the midpoint of  $\overline{PT}$ ,  $\angle P \cong \angle T$ , and  $\angle PRQ \cong \angle TRS$



Prove:  $\triangle PQR \cong \triangle TRS$

Statements	Reasons
(A) $\angle P \cong \angle T$	Given
R is midpt of $\overline{PT}$	Given
(S) $\overline{PR} \cong \overline{TR}$	def. of midpt
(A) $\angle PRQ \cong \angle TRS$	Given
$\triangle PQR \cong \triangle TRS$	ASA

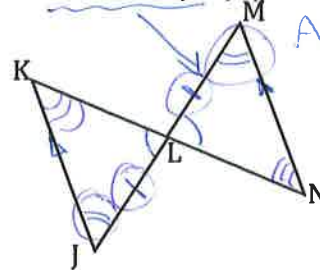
34. Given:  $\overline{BA} \parallel \overline{CD}$ ,  $\angle ADB \cong \angle CBD$



Prove:  $\triangle ABD \cong \triangle CDB$

Statements	Reasons
$\overline{JK} \parallel \overline{MN}$	Given
(A) $\angle J \cong \angle M$	alt. interior $\angle$ s then.
$\overline{KN}$ bisects $\overline{JM}$	Given
(S) $\overline{JL} \cong \overline{ML}$	def. seg. bisector
(A) $\angle KLM \cong \angle NLM$	vertical $\angle$ s are $\cong$
$\triangle JKL \cong \triangle MNL$	ASA

36. Given:  $\overline{KN}$  bisects  $\overline{JM}$ ,  $\overline{JK} \parallel \overline{MN}$



Prove:  $\triangle JKL \cong \triangle MNL$

Statements	Reasons
$\overline{JK} \parallel \overline{MN}$	Given
(A) $\angle J \cong \angle M$	alt. int. $\angle$ s theorem
(A) $\angle K \cong \angle N$	
$\overline{KN}$ bisects $\overline{JM}$	Given
(S) $\overline{JL} \cong \overline{ML}$	def. of seg. bisector
$\triangle JKL \cong \triangle MNL$	AAS