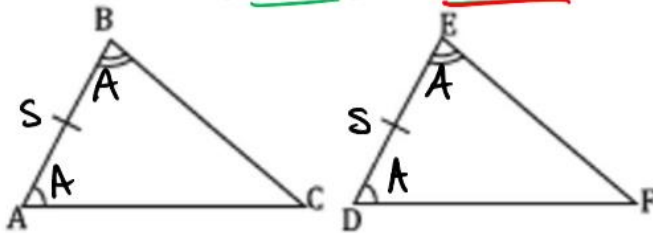


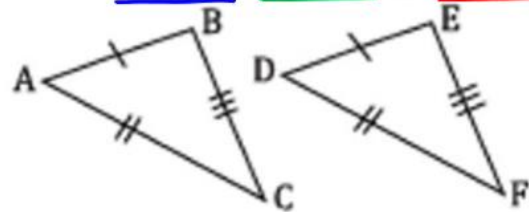
1. Given: $\overline{AB} \cong \overline{DE}$, $\angle B \cong \angle E$, and $\angle A \cong \angle D$



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

Statements	Reasons
1. $\overline{AB} \cong \overline{DE}$	1. Given
2. $\angle B \cong \angle E$	2. Given
3. $\angle A \cong \angle D$	3. Given
4. $\triangle ABC \cong \triangle DEF$	4. ASA

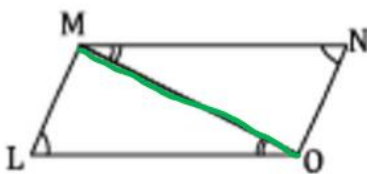
2. Given: $\overline{AB} \cong \overline{DE}$, $\overline{AC} \cong \overline{DF}$, and $\overline{BC} \cong \overline{EF}$



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

Statements	Reasons
1. $\overline{AB} \cong \overline{DE}$	1. Given
2. $\overline{AC} \cong \overline{DF}$	2. Given
3. $\overline{BC} \cong \overline{EF}$	3. Given
4. $\triangle ABC \cong \triangle DEF$	4. SSS

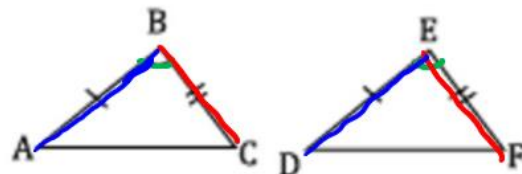
3. Given: $\angle L \cong \angle N$, $\angle LOM \cong \angle NMO$



Prove: $\triangle LMO \cong \triangle NMO$

Statements	Reasons
1. $\angle L \cong \angle N$	1. Given
2. $\angle LOM \cong \angle NMO$	2. Given
3. $\overline{MO} \cong \overline{OM}$	3. Reflexive Property
4. $\triangle LMO \cong \triangle NMO$	4. AAS

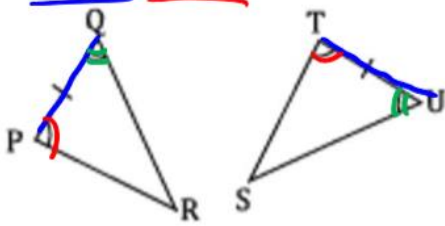
4. Given: $\overline{AB} \cong \overline{DE}$, $\overline{BC} \cong \overline{EF}$, and $\angle B \cong \angle E$



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

S	R
$\overline{AB} \cong \overline{DE}$	Given
$\overline{BC} \cong \overline{EF}$	Given
$\angle B \cong \angle E$	Given
$\triangle ABC \cong \triangle DEF$	SAS

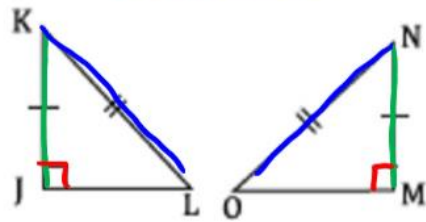
5. Given: $\overline{PQ} \cong \overline{TU}$, $\angle P \cong \angle T$, and $\angle Q \cong \angle U$



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

Statement	Reason
$\overline{PQ} \cong \overline{TU}$	Given
$\angle P \cong \angle T$	Given
$\angle Q \cong \angle U$	Given
$\triangle PQR \cong \triangle TUS$	ASA

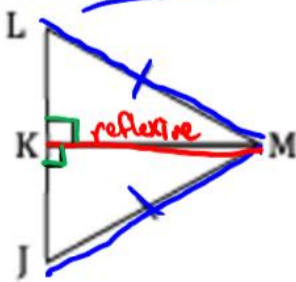
6. Given: $\overline{JK} \cong \overline{MN}$, $\overline{KL} \cong \overline{NO}$



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

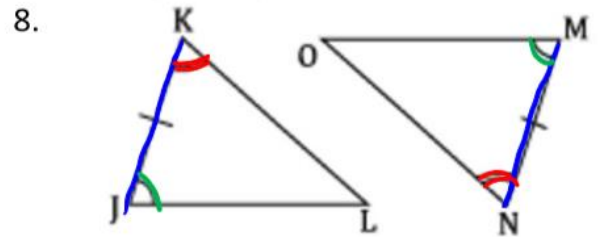
Statement	Reason
$\overline{JK} \cong \overline{MN}$	Given
$\overline{KL} \cong \overline{NO}$	Given
$\triangle JKL$ and $\triangle MNO$ are right triangles	Def. of right triangle
$\triangle JKL \cong \triangle MNO$	HL

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



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

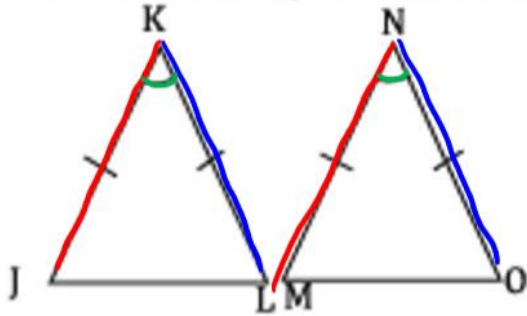
Statement	Reason
$\overline{LM} \cong \overline{JM}$	Given
$\triangle LKM$ and $\triangle JKM$ are right triangles	Def. of right triangle
$\overline{KM} \cong \overline{KM}$	Reflexive Prop.
$\triangle LKM \cong \triangle JKM$	HL



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

Statement	Reason
$\angle LJK \cong \angle OMN$	Given
$\overline{KJ} \cong \overline{NM}$	Given
$\angle JKL \cong \angle MNO$	Given
$\triangle JKL \cong \triangle MNO$	ASA

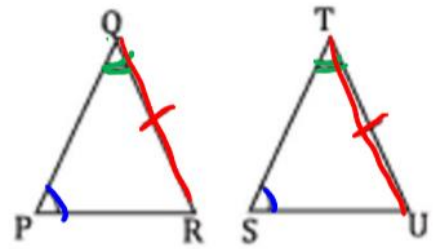
9. Given: $\angle K \cong \angle N$, $\overline{JK} \cong \overline{MN}$, $\overline{KL} \cong \overline{NO}$



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

Statement	Reason
$\overline{JK} \cong \overline{MN}$	Given
$\angle JKL \cong \angle MNO$	Given
$\overline{KL} \cong \overline{NO}$	Given
$\triangle JKL \cong \triangle MNO$	SAS

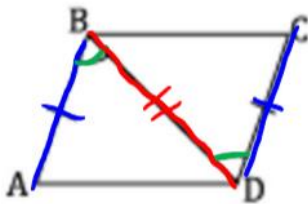
10.



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

Statement	Reason
$\angle RPQ \cong \angle UST$	Given
$\angle PQR \cong \angle STU$	Given
$\overline{QR} \cong \overline{TU}$	Given
$\triangle PQR \cong \triangle STU$	AAS

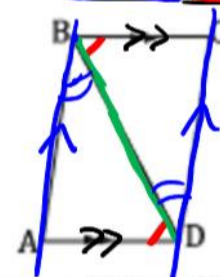
11. Given: $\overline{AB} \cong \overline{CD}$, $\angle ABD \cong \angle CDB$



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

Statement	Reason
$\overline{AB} \cong \overline{CD}$	Given
$\angle ABD \cong \angle CDB$	Given
$\overline{BD} \cong \overline{DB}$	Reflexive Prop.
$\triangle ABD \cong \triangle CDB$	SAS

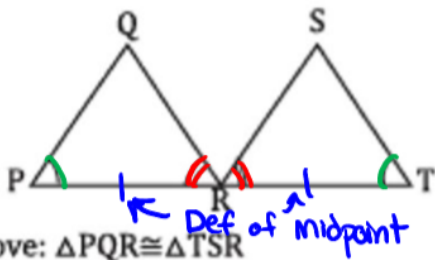
12. Given: $\overline{BA} \parallel \overline{CD}$, $\angle ADB \cong \angle CBD$



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

S	R
$\overline{BA} \parallel \overline{CD}$	Given
$\angle ADB \cong \angle CBD$	Given
$\overline{BD} \cong \overline{DB}$	Reflexive Prop.
$\angle ABD \cong \angle CDB$	Alt. Int. \angle 's
$\triangle ABD \cong \triangle CDB$	ASA

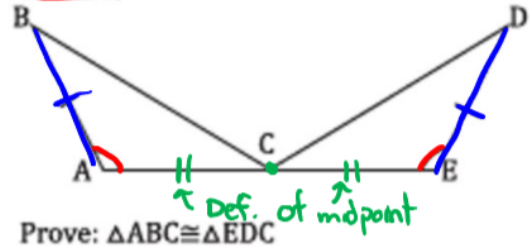
13. Given: R is the midpoint of \overline{PT} , $\angle P \cong \angle T$, and $\angle PRO \cong \angle TRS$



Prove: $\triangle PQR \cong \triangle TSR$

Statement	Reason
R is the midpoint of \overline{PT}	Given
$\angle P \cong \angle T$	Given
$\angle PRO \cong \angle TRS$	Given
$\overline{PR} \cong \overline{TR}$	Def. of midpoint
$\triangle PQR \cong \triangle TSR$	ASA

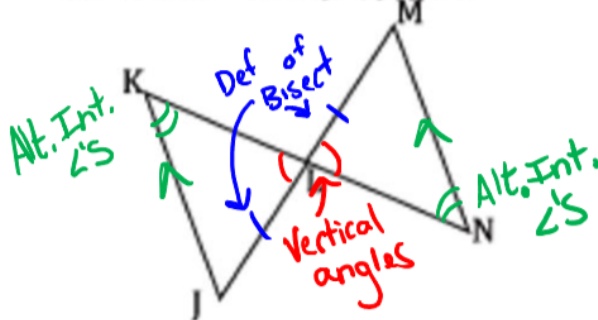
14. Given: C is the midpoint of \overline{AE} , $\overline{BA} \cong \overline{DE}$, and $\angle A \cong \angle E$



Prove: $\triangle ABC \cong \triangle EDC$

Statement	Reason
C is the midpoint of \overline{AE}	Given
$\overline{BA} \cong \overline{DE}$	Given
$\angle CAB \cong \angle CED$	Given
$\overline{AC} \cong \overline{EC}$	Def. of midpoint
$\triangle ABC \cong \triangle EDC$	SAS

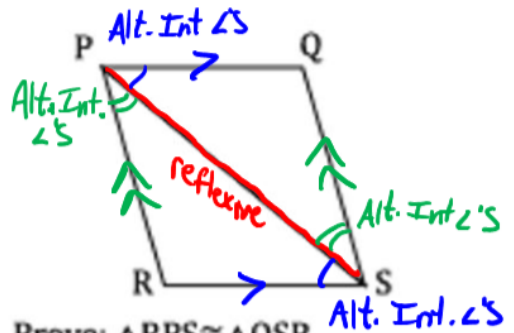
15. Given: \overline{KN} bisects \overline{JM} , $\overline{JK} \parallel \overline{MN}$



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

Statement	Reason
\overline{KN} bisects \overline{JM}	Given
$\overline{JK} \parallel \overline{MN}$	Given
$\overline{LJ} \cong \overline{LM}$	Def. of \cong
$\angle KLN \cong \angle MNL$	Vert. \angle 's Thm.
$\angle JKL \cong \angle MNL$	Alt. Int. \angle 's
$\triangle KLN \cong \triangle MNL$	AAS

16. Given: PQRS is a parallelogram



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

Statement	Reason
PQRS is a parallelogram	Given
$\overline{PQ} \parallel \overline{RS}$ and $\overline{PR} \parallel \overline{QR}$	Def. of Parallelogram
$\angle RPS \cong \angle QSP$	Alternate Int. \angle 's Thm.
$\angle QPS \cong \angle RSP$	Alternate Int. \angle 's Thm.
$\overline{PS} \cong \overline{SP}$	Reflexive Prop.
$\triangle RPS \cong \triangle QSP$	ASA

* There is a way to do this as ASA as well