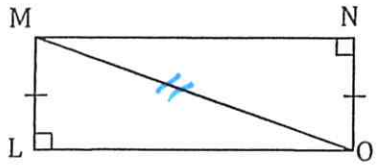
6

Given: $\overline{LM} \cong \overline{NO}$

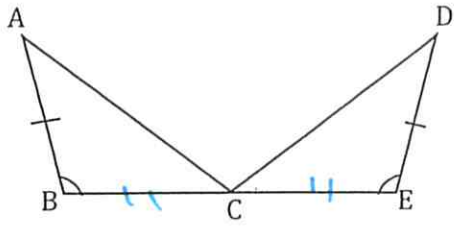


Prove: $\triangle LMO \cong \triangle NOM$

Statements	Reasons
1. $\overline{LM} \cong \overline{NO}$	1. given
2. $\overline{MO} \cong \overline{OM}$	2. Reflexive Prop. of $\cong$
3. $\triangle LMO \cong \triangle NOM$	3. HL

7

Given: C is the midpoint of $\overline{BE}$, $\angle B \cong \angle E$, and $\overline{AB} \cong \overline{DE}$

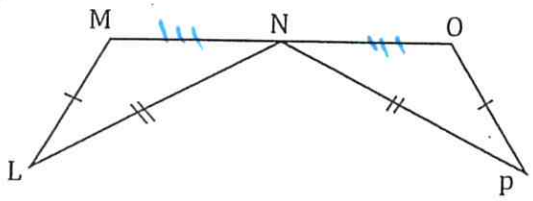


Prove: $\triangle ABC \cong \triangle DEC$

Statements	Reasons
1. $\angle B \cong \angle E$	1. given
2. $\overline{AB} \cong \overline{DE}$	2. given
3. C is midpoint of $\overline{BE}$	3. Given
4. $\overline{BC} \cong \overline{EC}$	4. Midpoint
5. $\triangle ABC \cong \triangle DEC$	5. SAS

8

Given: N is the midpoint of $\overline{MO}$, $\overline{LM} \cong \overline{OP}$, and $\overline{LN} \cong \overline{PN}$

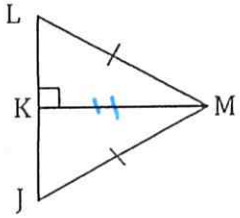


Prove: $\triangle LMN \cong \triangle PON$

Statements	Reasons
1. $\overline{LM} \cong \overline{OP}$	1. Given
2. $\overline{LN} \cong \overline{PN}$	2. given
3. N is the Midpoint of $\overline{MO}$	3. Given
4. $\overline{ON} \cong \overline{MN}$	4. Midpoint
5. $\triangle LMN \cong \triangle PON$	5. SSS

9

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



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

Statements	Reasons
(1) $\overline{LM} \cong \overline{JM}$	(1) given
(2) $\overline{MK} \cong \overline{MK}$	(2) Reflexive Prop. of $\cong$
(3) $\triangle LKM \cong \triangle JKM$	(3) HL.