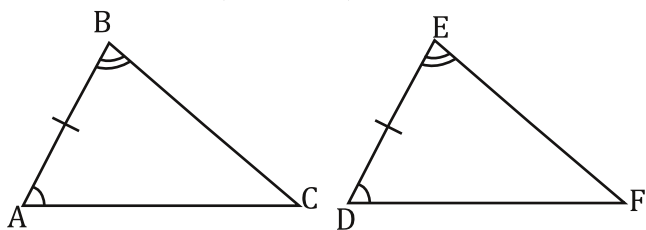


CO-B8a: Congruence Shortcuts Practice
 Fill in any missing statements or reasons.

1.

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

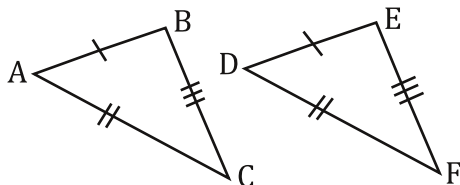


Prove: $\triangle ABC \cong \triangle DEF$

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

3.

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

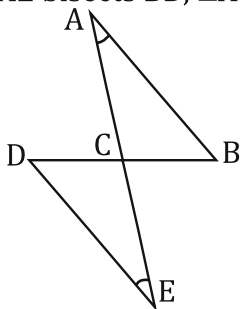


Prove: $\triangle ABC \cong \triangle DEF$

Statements	Reasons
1. $\overline{AB} \cong \overline{DE}$	1.
2.	2.
3.	3.
4.	4. SSS

5.

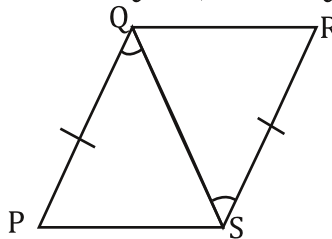
Given: \overline{AE} bisects \overline{BD} , $\angle A \cong \angle E$



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

Statements	Reasons
1. $\angle A \cong \angle E$	1.
2.	2. Given
3.	3. Definition of Bisect
4. $\angle ACB \cong \angle DCE$	4.
5. $\triangle ABC \cong \triangle EDC$	5.

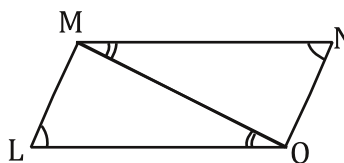
2. Given: $\overline{PQ} \cong \overline{RS}$, and $\angle PQS \cong \angle RSQ$



Prove: $\triangle PQS \cong \triangle RSQ$

Statements	Reasons
1.	1. Given
2.	2. Given
3. $\overline{QS} \cong \overline{QS}$	3.
4. $\triangle PQS \cong \triangle RSQ$	4.

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

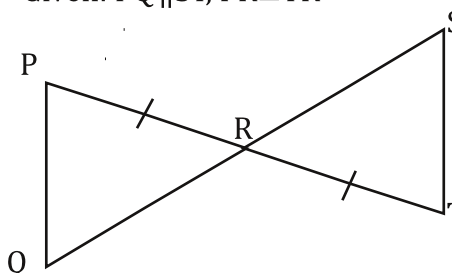


Prove: $\triangle LMO \cong \triangle NMO$

Statements	Reasons
1.	1.
2.	2. Given
3.	3. Reflexive Property
4. $\triangle LMO \cong \triangle NMO$	4.

6.

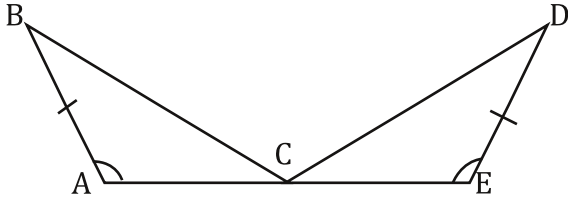
Given: $\overline{PQ} \parallel \overline{ST}$, $\overline{PR} \cong \overline{TR}$



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

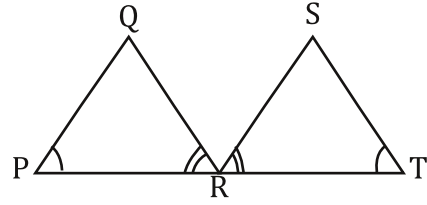
Statements	Reasons
1. $\overline{PR} \cong \overline{TR}$	1.
2.	2. Given
3. $\angle P \cong \angle T$	3.
4. $\angle PRQ \cong \angle TRS$	4.
5.	5. ASA

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



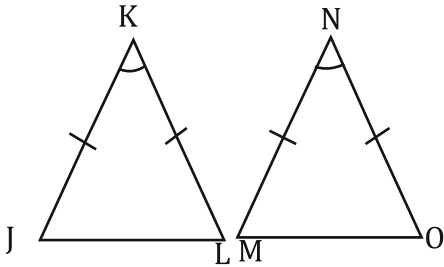
Prove: $\triangle ABC \cong \triangle EDC$

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



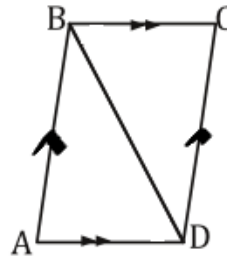
Prove: $\triangle PQR \cong \triangle TSR$

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



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

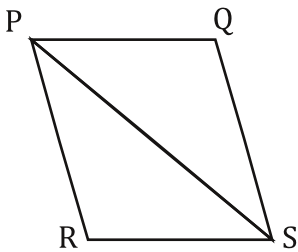
10. Given: $\overline{BA} \parallel \overline{DC}$, $\overline{BC} \parallel \overline{DA}$, $\angle A \cong \angle C$



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

11.

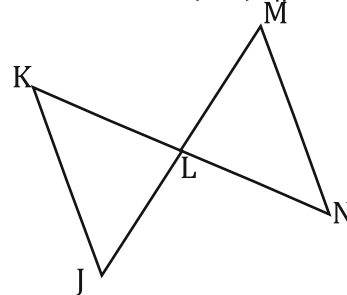
Given: PQRS is a parallelogram



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

12.

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



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