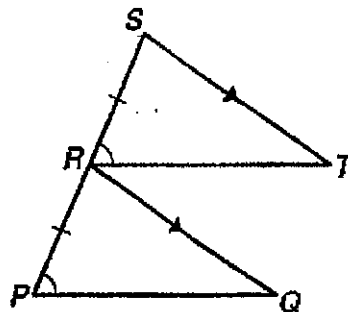


Complete each proof.

- pg 4

16. Given: $\overline{ST} \parallel \overline{RQ}$, $\overline{SR} \cong \overline{RP}$, $\angle SRT \cong \angle RPQ$

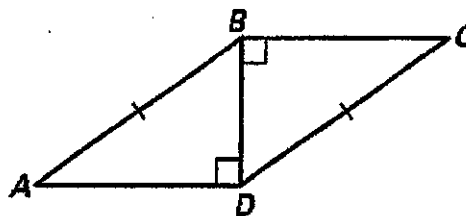
Prove: $\overline{RT} \cong \overline{PQ}$



Statements	Reasons
1.	1.
2. $\angle RST \cong \angle RPQ$	2.
3. $\triangle RST \cong \triangle RPQ$	3.
4.	4.

17. Given: $\overline{AB} \cong \overline{CD}$, $\angle ADB$ and $\angle DBC$ are right angles

Prove: $\angle ABD \cong \angle CDB$



Statements	Reasons
1.	1.
2.	2. Reflexive
3.	3. HL
4.	4.

Geometry

Assignment #9 CPCTC Worksheet

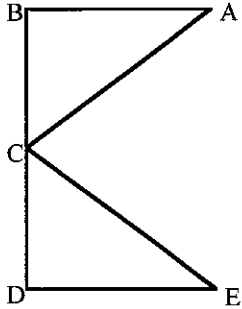
Name _____

Group #: _____ Period: _____

Label the diagram and then write a paragraph proof.

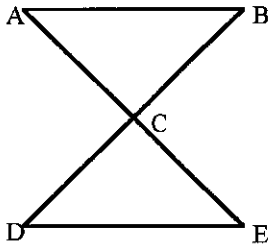
1. Given: $\angle BCA \cong \angle DCE$
 $\angle B$ and $\angle D$ are right angles
 C is the midpoint of \overline{BD}

Prove: $\overline{BA} \cong \overline{DE}$



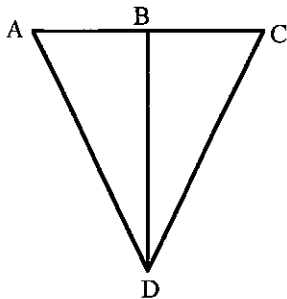
2. Given: $\overline{AC} \cong \overline{EC}$
 C bisects \overline{BD}

Prove: $\overline{AB} \cong \overline{ED}$



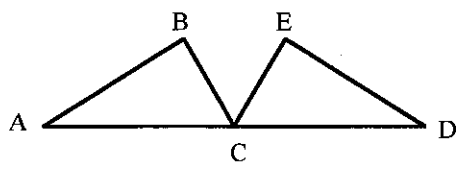
3. Given: $\overline{AC} \perp \overline{BD}$
 $\overline{AD} \cong \overline{CD}$

Prove: $\overline{AB} \cong \overline{BC}$



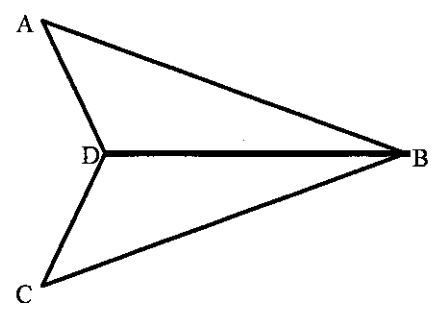
4. Given: $\overline{AB} \cong \overline{DE}$, $\overline{BC} \cong \overline{EC}$,
C is the midpoint of \overline{AD}

Prove: $\angle A \cong \angle D$



5. Given: \overline{DB} bisects $\angle ABC$
 $\overline{AB} \cong \overline{CB}$

Prove: $\angle A \cong \angle C$



6. Given: C bisects \overline{AE}
 $\angle B$ and $\angle D$ are right angles
 $\angle A \cong \angle E$

Prove: $\overline{BC} \cong \overline{DC}$

