

Geometry

Assignment #9 CPCTC Worksheet

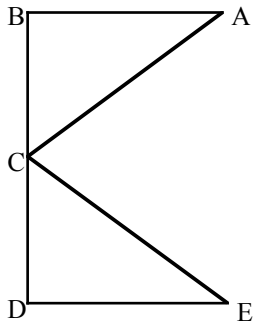
Label the diagram and then write a ~~paragraph~~ proof.

Name _____

Group #: _____ Period: _____

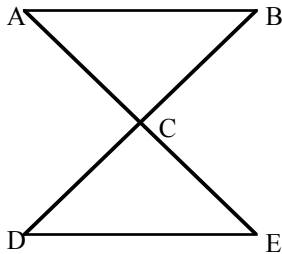
1. Given: $\angle BCA \cong \angle DCE$
 $\angle B$ and $\angle D$ are right angles
C is the midpoint of \overline{BD}

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



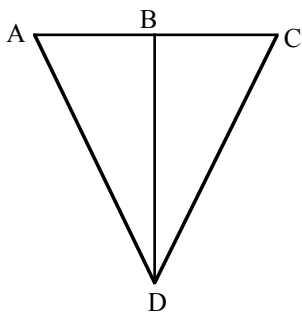
2. Given: $\overline{AC} \cong \overline{EC}$
C bisects \overline{BD}

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



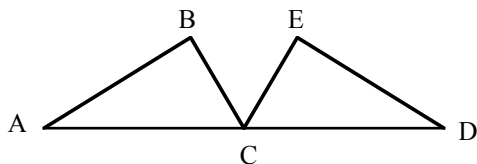
3. Given: $\overline{AC} \perp \overline{BD}$
 $\overline{AD} \cong \overline{CD}$

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



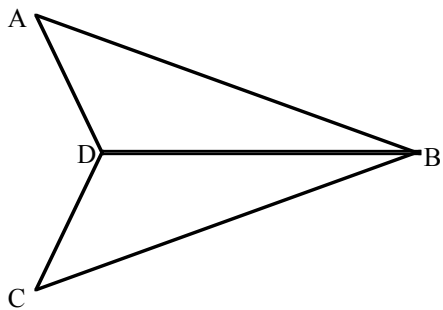
4. Given: $\overline{AB} \cong \overline{DE}$, $\overline{BC} \cong \overline{EC}$,
 C is the midpoint of \overline{AD}

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

