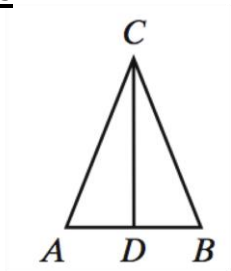
Name :_____ **Date:** _____

CC Geometry

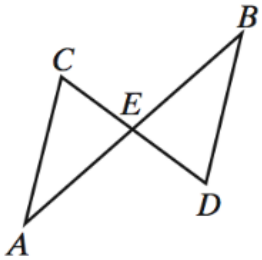
CPCTC and Triangle Proofs



1. *Given:* $\overline{CD} \perp \overline{AB}$, and D is the midpoint of $\overline{AB}$

Prove: $\angle ACD \cong \angle BCD$

Statements	Reasons



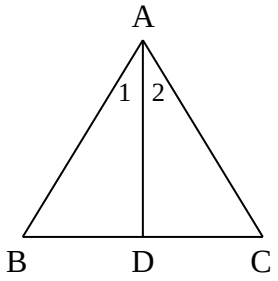
2. *Given:* $\overline{AEB}$ and $\overline{CED}$ bisect each other.

Prove: $\angle C \cong \angle D$

Statements	Reasons

3. *Given:* $\overline{AD}$ bisects $\angle BAC$
$\overline{AB} \cong \overline{AC}$

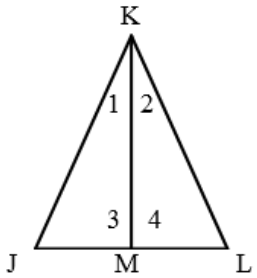
Prove: D is the midpoint of $\overline{BC}$



Statements	Reasons

4. *Given:* $\angle 1 \cong \angle 2$, $\angle 3 \cong \angle 4$

Prove: ΔJKL is isosceles

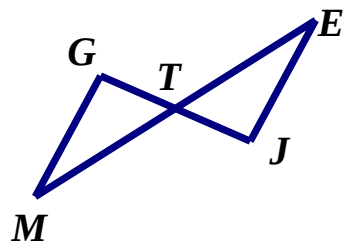


Statements	Reasons

5. *Given*: T is the midpoint of $\overline{ME}$

$\angle G \cong \angle J$

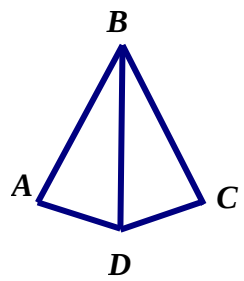
Prove: $\overline{GM} \parallel \overline{JE}$



Statements	Reasons

6. *Given:* $\overline{AB} \cong \overline{CB}$, $\overline{BD}$ bisects $\angle ABC$

Prove: $\overline{BD}$ bisects $\angle ADC$



Statements	Reasons