Name _____   Pd ___ Date _____

5.7 Proving Congruent Triangle PROOFS CYU DAY ONE

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Reflexive POC	1 - 3		
Def of Angle Bisector		1, 2	
SAS, SSS, AAS, HL, ASA	1 - 5		
Alternate Interior Angles		4 - 5	

Be sure to number and label all your statements and reasons. BE sure to mark stuff AFTER your write it in your proof!

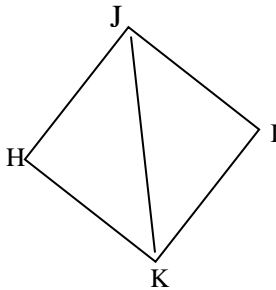1. **Given:** $\angle H \cong \angle I$; $\overline{JK}$ bisects $\angle HJI$
   Prove: $\triangle HJK \cong \triangle IJK$
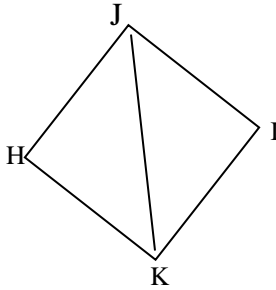
   statements   reasons

   _____|_____

2. **Given:** $\overline{JH} \cong \overline{JI}$; $\overline{JK}$ bisects $\angle HJI$
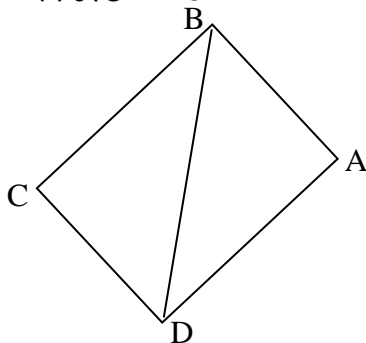   **Prove:** $\triangle HJK \cong \triangle IJK$

   statements   reasons
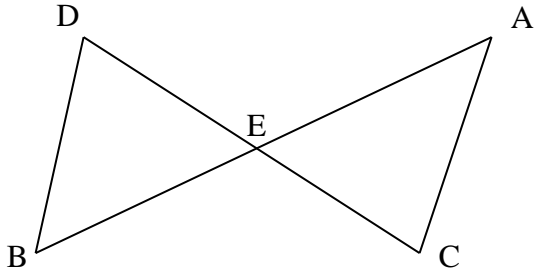
   _____|_____

3. **Given:** $\overline{BC} \cong \overline{AD}$; $\overline{BA} \cong \overline{CD}$
   Prove: $\triangle BCD \cong \triangle DAB$

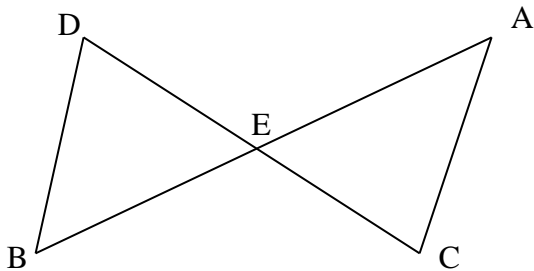   statements   reasons

   _____|_____

4. Given: $\overline{BD} \cong \overline{AC}$; $\overline{BD} \parallel \overline{AC}$

   Prove: $\triangle BED \cong \triangle AEC$

statements	reasons

D   A

E

B   C

5. Given: $\overline{ED} \cong \overline{EC}$; $\overline{BD} \parallel \overline{AC}$

   Prove: $\triangle BED \cong \triangle AEC$

statements	reasons

D   A

E

B   C

CYU Reflection: *How far can you go: basic, intermediate, or advanced?*
Rate your mastery level!
How confident are you with the skills this CYU covered? Circle the score you would give yourself.

1 2	3 4 5	6 7	8
Basic	Intermediate	Advanced	Solved ALL!