

Name \_\_\_\_\_ Pd \_\_\_\_ Date \_\_\_\_\_

### 5.7 Proving Congruent Triangle PROOFS CYU DAY ONE

Use when you get it right all by yourself

**S** Use when you did it all by yourself, but made a silly mistake

**H** Use when you could do it alone with a little help from teacher or peer

**G** Use when you completed the problem in a group

**X** Use when a question was attempted but wrong (get help)

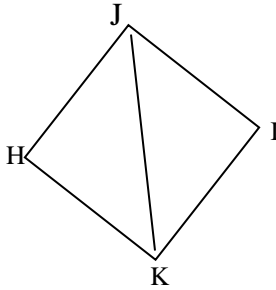
**N** Use when a question was not even attempted

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  $\angle HJI$

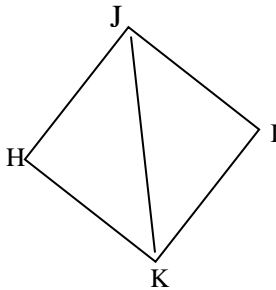
**Prove:**  $\triangle HJK \cong \triangle IJK$



statements	reasons

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

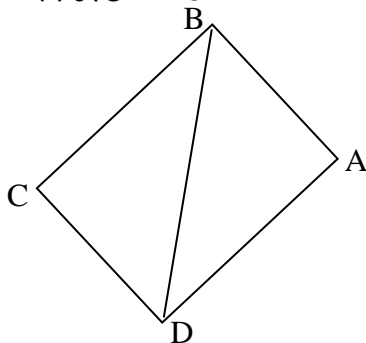
**Prove:**  $\triangle HJK \cong \triangle IJK$



statements	reasons

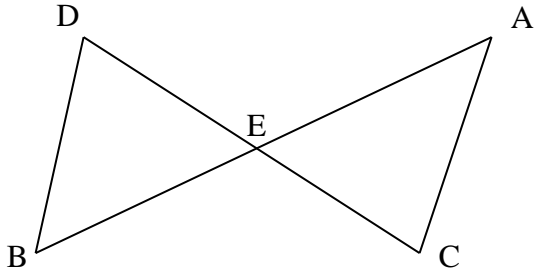
3. **Given:**  $\overline{BC} \cong \overline{AD}$ ;  $\overline{BA} \cong \overline{CD}$

**Prove:**  $\triangle BCD \cong \triangle DAB$



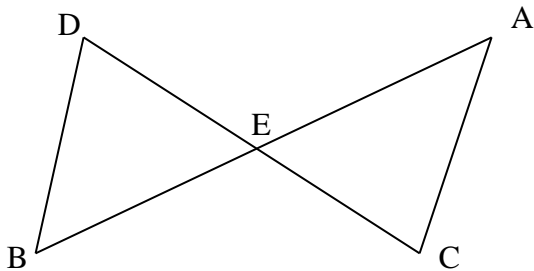
statements	reasons

4. Given:  $\overline{BD} \cong \overline{AC}$ ;  $\overline{BD} \parallel \overline{AC}$   
 Prove:  $\triangle BED \cong \triangle AEC$



statements	reasons

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



statements	reasons

**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.

