Name _____ Date _____ Pd _____

CYU 2.5 & 2.6 Proofs DAY THREE

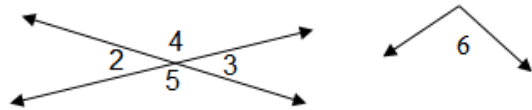| CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Given	1 - 5		
Transitive POE/POC	5	1, 2	
Symmetric POE/POC		2	
Segment/Angle Addition Postulate		4	
Def. of vertical angles	1, 2		
Substitution POE		4	
Def. of midpoint	5		
Def. of linear pair		3	
If =, then ≅. Or If ≅, then =.	2	4	

Create a two-column proof for the five problems below. Be sure to number your statements and reasons. Leave no holes in your argument. Be a great lawyer! Recreate the proofs on your own piece of paper and staple it to this sheet when you turn it in.

1. Given: ∠2 ≅ ∠3
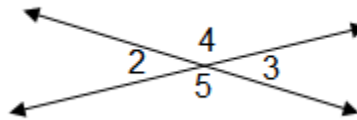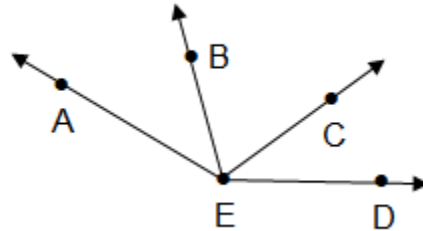
   Prove: ∠1 ≅ ∠4
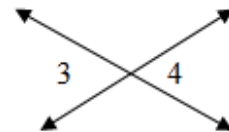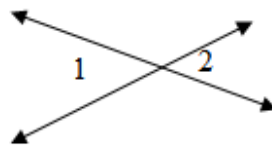
2. Given: the figure at the right $\angle 4 \cong \angle 6$
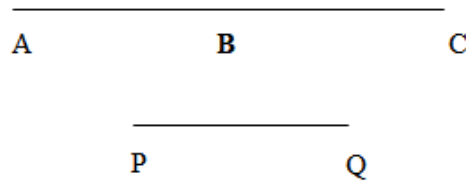
   Prove: $\angle 6 \cong \angle 5$

3. Given: the figure at the right
   Prove: $m\angle 2 + m\angle 4 = 180°$

4. Given: $\angle AEC \cong \angle DEB$

   Prove: $\angle AEB \cong \angle DEC$

5. Given: B is midpoint of $\overline{AC}$; $\overline{BC} \cong \overline{PQ}$

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

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! |