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CYU 2.5 & 2.6 Proofs DAY THREE

☐ Use when you get it right all by yourself

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

NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Given	1-5		· 第4章 4
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 \cong . Or If \cong , 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

Statements

1. ∠2 ≥ ∠3 2. ∠1 ≤ ∠2; ∠3 ≤ ∠4 2. Def. of vertical x's 3. ∠1 ≤ ∠4 3. Transitive POC 3. 4 = 44

2. Given: the figure at the right $\angle 4 \cong \angle 6$

Prove: ∠6 ≅ ∠5

extra paper

3. Given: the figure at the right Prove: $m\angle 2 + m\angle 4 = 180^{\circ}$

extra
paper

4. Given: ∠AEC ≅ ∠DEB

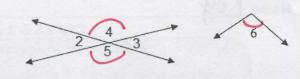
Prove: ∠AEB ≅ ∠DEC

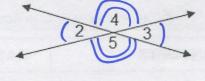
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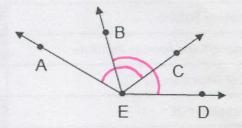
5. Given: B is midpoint of \overline{AC} , $\overline{BC} \cong \overline{PQ}$

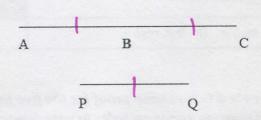
Prove: $\overline{AB} \cong \overline{PQ}$

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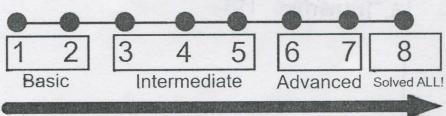




CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.



2. Statements	Reasons
1. 4 = 46 2. 4 = 45 3. 46 = 44	1. given 2. Def of vertical 3's 3. Symmetric POC
4. ∠6 ≅ ∠5	4. Transitive Poc

3. Statement?	Reasons
1. 44 = 45; 42 = 43	1. Def of vertical 3's
2. L2 & L4 form a	1. Def of vertical 3's 2. Def of linear pair
linear pair	
	3. Def of linear pair

4.	Statements	Reasons
	1. ∠AEC = ∠DEB	1. Given
	2. MLAEC = MLDEB	2. F===.
	3. m <aeb+m<bec=aec m<bec+m<der= m<<br="">DEB</bec+m<der=></aeb+m<bec=aec 	3. 3 Add. Ast.
	4. MLAEB+ MLBEC = MLBEC MLDES	
	5. MCAEB = MCDED	5. Subtraction POE
	6. LAEB & LDEC	6. If = => 2.

5. Statements	Reasons
1. B is the mapt of AC;	1. Given
BC = PQ	
2. AB ≈ BC	2. Def of mapt
3. AB = PQ	2. Def of mapt 3. Transitive POC