Name

## CYU 2.6 Geometric Reasoning DAY TWO Basic Proofs

☑ 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)

NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Given	1-6		
If $\cong$ , then =. Or If =, then $\cong$ .	1, 6		
Transitive POE/POC	1		
Symmetric POE/POC	1		
Segment/Angle Addition Postulate		4, 5	
Def. of Complementary/Supplementary Angles	2, 3	6	
Def. of vertical angles		6	
Def. of Perpendicular Segments/Lines	2		
Substitution POE		4, 5, 6	
Commutative POE		4	
Addition/Subtraction POE/POC		5	

1) Given:  $\angle 1 \cong \angle 2$ 

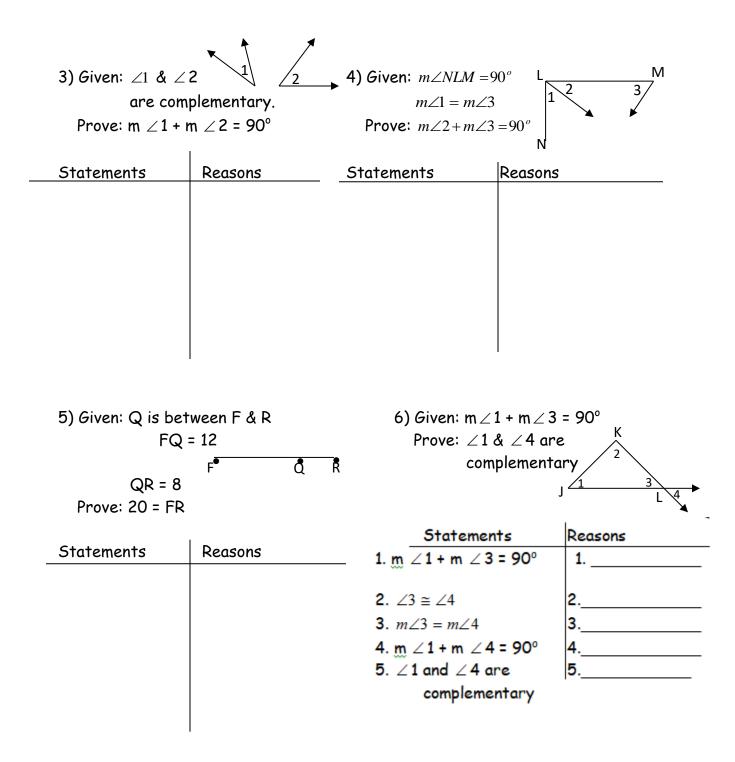
 $\angle 4 \cong \angle 2$ 

2) Given:  $\overline{SX} \perp \overline{WX}$ 

Prove:  $\angle 3 \& \angle 4$  are complementary

Prove:  $\angle 1 \cong \angle 4$ 

Statements	Reasons	Statements	Reasons	w



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 Intermediate Advanced Solved ALL!