Name _____ Date _____ PD ____

3.3 Parallel Lines Proofs DAY TWO CYU

Be sure to number your statements and reasons.

☑ *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*

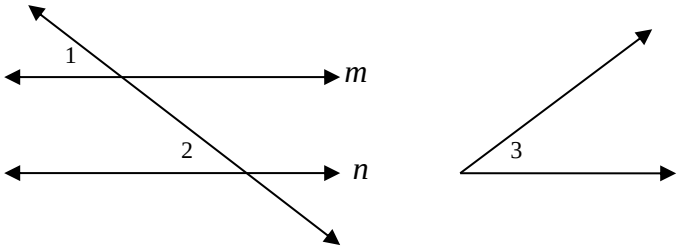
X *Use when a question was attempted but wrong (get help)*

N *Use when a question was not even attempted*

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Given	1 – 7		
Corresponding Angles Thm/Converse	1	3, 4	6
Transitive POC	1, 2	3	6
AIA Thm/Converse	2	3, 5	6
Vertical Angles Definition	2		7
Linear Pair Postulate		4	7
Def. of Congruent Angles		4, 5	7
Substitution POE		4, 5	7
Add. POE/Subtraction POE			7

1. Given: $m \parallel n, \angle 2 \cong \angle 3$

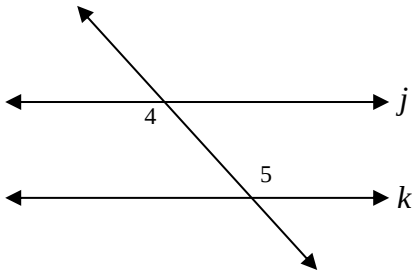
   Prove: $\angle 1 \cong \angle 3$

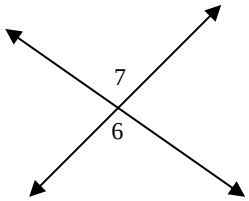


STATEMENTS	REASONS

2. Given: $j \parallel k, \angle 5 \cong \angle 6$

   Prove: $\angle 4 \cong \angle 7$

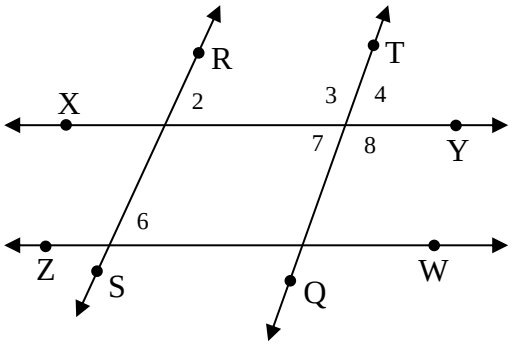




STATEMENTS	REASONS

3. Given: $\overleftrightarrow{XY} // \overleftrightarrow{ZW}; \overleftrightarrow{RS} // \overleftrightarrow{TQ}$

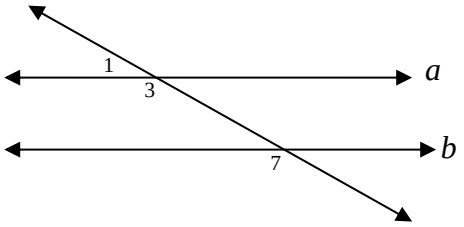
   Prove: $\angle 6 \cong \angle 7$



STATEMENTS	REASONS

4. Given: $a \parallel b$

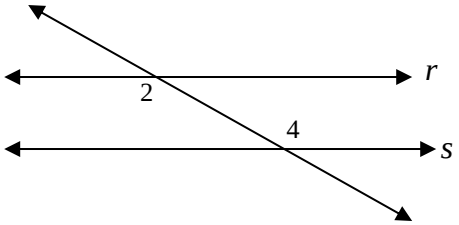
   Prove: $m\angle 1 + m\angle 7 = 180^o$



STATEMENTS	REASONS

5. Given: $m\angle 2 = 122°,\ m\angle 4 = 122°$

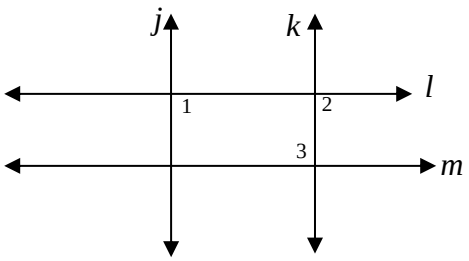
   Prove: $r \parallel s$



STATEMENTS	REASONS

6. Given: $j \parallel k,\ \angle 1 \cong \angle 3$

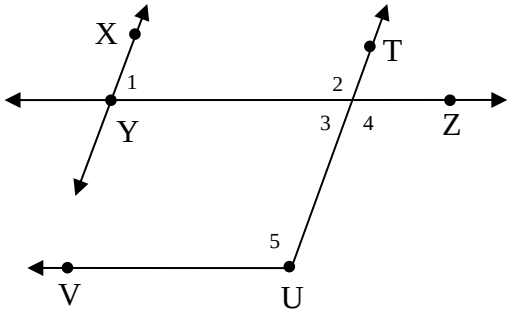
Prove: $l \parallel m$



STATEMENTS	REASONS

7. Given: $m\angle 1 + m\angle 4 = 180°,\ m\angle 1 + m\angle 5 = 180°$

Prove: $\overleftrightarrow{YZ} \parallel \overleftrightarrow{VU}$



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.