

5.7 Overlapping Congruent Triangle Proofs DAY THREE CYU

☑ 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)

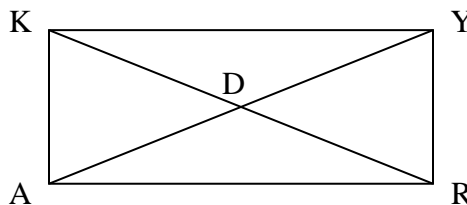
N Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Reflexive POC	1 - 6		
SAS, SSS, AAS, HL, ASA	1 - 6		
CPCTC	1, 5, 6		
Def of Perpendicular Lines	1, 3, 5		
Def of Midpoint	3		

Create a two-column proof on your own paper. Label the statements and reasons columns and be sure to number each step of the proof. Use correct notation. Only mark your diagram after writing the information in your proof. **It might help to redraw your diagram as separate triangles relevant to the proof.**

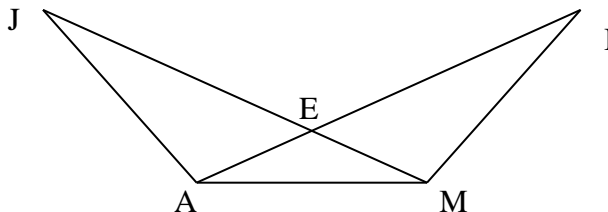
1. Given: $\overline{KA} \perp \overline{AR}$; $\overline{YR} \perp \overline{AR}$; $\angle AKR \cong \angle RYA$

Prove: $\overline{DK} \cong \overline{DY}$



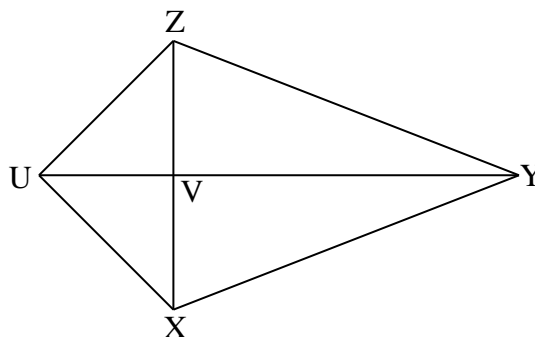
2. Given: $\angle JAM \cong \angle IMA$; $\overline{JE} \cong \overline{IE}$; $\overline{AE} \cong \overline{ME}$

Prove: $\triangle JAM \cong \triangle IMA$

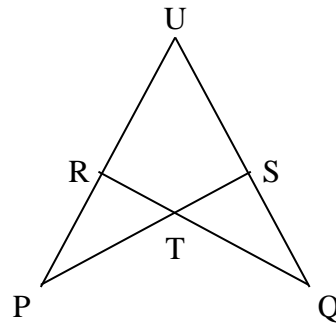


3. Given: V is the midpoint of \overline{ZX} ; $\overline{UY} \perp \overline{XZ}$

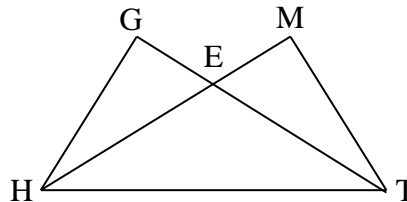
Prove: $\triangle ZUY \cong \triangle XUY$



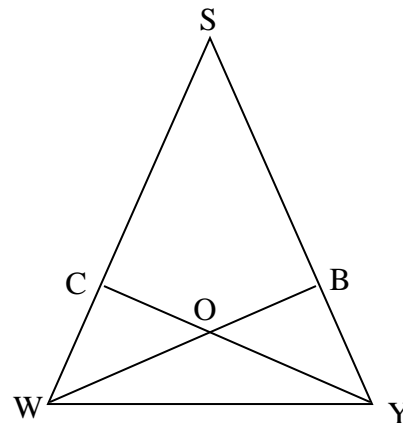
4. Given: $\angle PRT \cong \angle QST$; $\overline{RT} \cong \overline{ST}$; $\overline{RU} \cong \overline{US}$
 Prove: $\triangle URQ \cong \triangle USP$



5. Given: $\overline{HG} \perp \overline{GT}$; $\overline{TM} \perp \overline{MH}$; $\angle GTH \cong \angle MHT$
 Prove: $\overline{GE} \cong \overline{ME}$



6. Given: $\overline{WS} \cong \overline{YS}$; $\overline{WC} \cong \overline{YB}$
 Prove: $\overline{CO} \cong \overline{BO}$



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!

➔