video explanation on GC

Pd

CYU 2.5 Geometric Reasoning DAY ONE

☐ 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)

N Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Addition/Subtraction POE/POC	1		1. a-02
Multiplication/Division POE/POC	4		
Substitution POE	4		
Distributive Property	Mark Cold Seeds	no lunt majera	a catha - C
Reflexive POE/POC	3		
Symmetric POE/POC	3		
Transitive POE/POC	1, 3, 6	5, 6	6
Def. of Complementary/Supplementary Angles	4	2	
Def. of Complement/Supplement	(14)	2	TENET
Def. of Congruent Angles	4	等场类别类	PIAM
Def. of Linear Angles	4	at have make as	of 6 miles
Def. of Segment Bisector	49 17 16 08 27-2	5	2000 2 36A

1.	Complete th	e proof.

Given
$$PQ = RS$$

Prove PR = QS



STATEMENTS

1. PQ = RS

- 2. PQ + QR = RS + QR
- 3. PQ +QR = PR
- 4. RS + QR = QS
- 5. PR = QS

REASONS

- 1. Given
- 2. Add. POE
- 3. Segment Addition Postulate (Post. 1.2)
- 4. Segment Addition Postulate (Post. 1.2)

2.	. Complete the proof. Given ∠1 is a complement of ∠2.	STATEMENTS REASONS		
	/2 ≈ /3 ·	. ∠1 is a comple		Given
	Prove /lisa complement of /3	. ∠2 ≈ ∠3		Given
		l. m∠l + m∠2 :		Def of complemental
	\ \ \ \ /	$1. \ m\angle 2 = m\angle 3$		Definition of congruent angles
	1//2/3	mel+me	$23 = 90^{\circ}$ 5.	Substitution Property of Equality
		i. Z1 is a comple	ement of ∠3. 6.	Det of complement
3.	. Name the <u>property</u> that the stateme	ent illustrate	S.	Da Ac (comput)
	a. If $\overline{PQ} \cong \overline{ST}$ and $\overline{ST} \cong \overline{UV}$, t	then $PQ \cong U$	IV. rang	ATTHE FOC Gentler
	b. ∠F≅∠F		Kerley	we Poc (Angle)
1	c. If $\overline{XY} \cong \overline{UV}$, then $\overline{UV} \cong \overline{XY}$		the state of the s	netric for (Segmen
4.	 Write a two-column proof on your of Given ∠GFH ≃ ∠GHF 	wn paper: 1	, statements,	reasons, & numbers.
	Prove ∠EFG and ∠GHF are supplementary.			- 0.4 -
	· G	ex.	ta p	aper
	+			Refuse managed at
5	. Write a two-column proof on your o	wn nanor: T	statements	rossons & numbers
٥.	Given $\overline{AB} \cong \overline{FG}$.	wii papei. i	, statements,	reasons, & numbers.
	\overline{BF} bisects \overline{AC} and \overline{DG} .			
	Prove $\overline{BC} \cong \overline{DF}$			22245
	8	e	extra	paper
	↓ C			
-	. In the diagram, $\overline{MN} \cong \overline{LQ}$ and \overline{LQ}	~ DN Dessi	riba AND corr	eact the arror in the
0.	reasoning.			ect the error in the
	Transitive POC (segment)	X Be	ecause $MN \cong LQ$ and $LQ \cong PN$, then	L
	THE LEGAN - MIS	ON M	$N \cong PN$ by the	
	MIZE & LAZPN => MNZ	RI of	eflexive Property Segment	O P N
			ongruence (Thm. 2.	.1).
7.	. Write a two-column proof on your o	wn paper: T	, statements,	reasons, & numbers. Solve
	for x using the given information an	d justify each	n step.	
	Given $\overline{QR} \approx \overline{PQ}$, $\overline{RS} \approx \overline{PQ}$ Tray	nsitive	POC (Se	gment)
	PH WS	QR = RS		
	Q 2x + 5 R 10 - 3x	2x+5 =	10-3X	[x-1]
	THEY LLA	2x+5=		[A=1]
	CYU Reflection: How far can			te, or advanced?
		e your maste		
	How confident are you with the ski			e the score you would give
		yourself		
	0 0 0	-0-	0-0	-0
	1 2 2 4	E	6 7	
	1 2 3 4	5	6 7	0
	Basic Interm	ediate	Advanced	Solved ALL!

4. Statement Reason S 1. < GFH = < GHF 1. Given 2. If = = = (Def. of = 4's) 2. m < GFH = M < GHF 3. Given (diagram) 3. LEFG & GFH for a linear pair 4. Def. of linear Pair 4. LEFG & COFH are Supplementary 5. Det of supplementay 7's 6. Substitution POE 5. MC EFG + MC 6 FH= 180 6.m2BF6+m2GHF=180 17. Def. of supplementary X's 7.4EFG & LGHF are Supplementary

5. Statement Reasons 1. AB = FG 2. BF bisects AC & DG 2. Given 3. BC = AB; F6 = DF 4. BC = F6 5. BC ≥ DF 5. Transitive POE 5. Transitive POE