Chaj Proc	pter 2 ofs Works	Honors Geom	netry	Name:
1.	Given: a. Usi	the figure at the right ng inductive reasoning, what conclusion can make about vertical angles $\angle 1$ and $\angle 2$?	1/2 3/4 Co	onclusion:
	b. Usi	ng inductive reasoning, what conclusion can make about linear pair ∠3 and ∠4?	Co	onclusion:
In p	roblems	2 and 3, make a conclusion and	justify it.	
2.	Given:	P Q	• R	
	What ca	n you write about SPR ?	Conclusio Justificatio	n:
3.	Given:			
	What ca	In you write about $\angle ABC$?	Conclusio Justificatio	n:
In p	roblem 4	, fill in the blanks; use the figur	e at the right.	Lar
4.	Given:	$m \angle 1 = m \angle 3$		
	Prove:	$m \angle LMP = m \angle QMN$		M
		Conclusions		Justifications
	0.	$m \angle 1 = m \angle 3$	0.	
	1.		1. H	Reflexive Property of Equality
	2.	$m \angle 1 + m \angle 2 = m \angle 3 + m \angle 2$	2	
	3.	$m \angle 1 + m \angle 2 = m \angle LMP$	3.	
		+ =	_·	
	4.	$m \angle LMP = m \angle QMN$	4	





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8.	Given: Prove:	$\angle PQR \cong \angle JKL,$ $\angle 1 \cong \angle 3$	$\angle 2 \cong \angle 4$	Q R L A	
		Conclusions		Justifications	

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9.	Given:	$\angle LJC$ is a right angle		
	Prove:	$\angle 7$ and $\angle 8$ are complementary		
		Conclusions	Justifications	

10.	Given: Prove:	$\angle 1$ and $\angle 2$ are a linear pair $\angle 1$ and $\angle 2$ are supplementary	$\begin{array}{c c} X & W & Z \\ \hline 1/2 \\ V \end{array}$
		Conclusions	Justifications

11.	Given: $\angle 5$ and $\angle 7$ are vertical anglesProve: $\angle 5 \cong \angle 7$			5 8 7	
		Conclusions	Justifications		