Geometry Chapter 2 Review Homework	Name Kly
1. Find the next two terms in each pattern:	
a) Tue, Fri, Mon, Thu,	1a) <u>Sunday, Wednesd</u>
b) \$1.01, \$10.01, \$100.01,	1b) \$1,000.01; \$10,000.0
2. Complete the conjecture: $ +3+5+7 = 6 $ $ +1+ +1 = 4 $ 3+6+7	The sum of 4 odd numbers is a(n) even number +9 =24
3. Determine whether the conjecture is true or false. If	the statement is false, give a counterexample:
A = 1 축 = 교 호 = 3 "The quotient of two ex Fause. C	ven numbers is always even." ounterexample: = 100ad
 Consider the following statements. Determine if each counterexample. 	h statement is true or false. If false, provide a
A) "If 2 angles are congruent, then they are vertical angles."	B) "If 2 angles form a linear pair, then they are supplementary."
False. 25, 20°,	TRUE
False. 25, 20°, ≅, but not v.A.	
A) Is the converse TRUE FALSE? Why? If 21s are V.A. then they are >	B) Is the converse TRUE (FALSE) Why? If a Ls are supp, then they form a linear pair.
	form a linear pair. Supp. but do not firm a L.P.
5. Consider the statement: "Right angles are always c	ongruent to one another."
	circle the hypothesis and underline the conclusion
	in they are ~ to each athor

If (2 L's are right Ls) then they are =

6. Consider the conditional statement: "If two angles form a linear pair, then the angles are supplementary." T Write the converse, inverse, and contrapositive of this true statement. Find the truth value of each.

c) Contrapositive: If a Ls are not supp, then the unear pair.

* The conditional and converse must both be true in order for the biconditional

7. I	Determine if the o	coniecture is	valid by the Law of Syllog	ism: 1	Valid/Invalid (circle one)		
Given: If your pa		If your pare	ents are upset, they will not obey your curfew, your	ot let you borrow the ca	0-14		
	Conclusion: If you do not obey your curfew,		ot obey your curfew, your	, your parents will not let you borrow the car.			
	Correction if	invalid:	N/A				
8. 1	Draw a conclusior	n based on al	I three of the following gi	ven statements			
	Given:	If Susan has Susan has t	ts a raise, then she will mo s the top sales numbers tl the top sales numbers this	nis month, then she will s month.	get a raise. S→R S0		
	Conclusion:	Susa	n will move int	b her own apo	irtment. STR		
9. Identify the property that justifies each statement:							
	a) ∠ <i>A</i> ≅	≦ ∠A		a	Reflexive		
	b) IF \overline{AB}	$\cong \overline{CD}$ and	$\overline{CD} \cong \overline{EF}$, then $\overline{AB} \cong \overline{E}$	\overline{F} b	Transitive		
	c) IF \overline{QU}	$\overline{I}\cong\overline{IZ}$, then	$\overline{IZ} \cong \overline{QU}$	c			
	•		\angle G is supplementary to mentary to \angle O.	∠0, d	Substitution		
Fill in the conclusion using the diagram. Then provide a reason using a definition, theorem or postulate.							
12	Given: \overrightarrow{UE} bis	octs /IIIV			L_		
12.			EUK		U E		
Conclusion: <u>ZLUE = LEUK</u> Reason: <u>If a ray bisects an L</u> , then it : the Linto 2 = Li							
	Given: $\overline{AT} \cong \overline{T}$			•	T		
	Conclusion: T			A			
Reason: If a pt. = a segment into 2 = segs, then it is the midpt of the segment of the segment							
14. Given: ∠G and ∠E are supplementary ∠E and ∠O are supplementary							
Conclusion: 29°20							
Reason: If 22s are supp to the same 2, then the 22s are =.							