Geometry R – Mr. Bo	Name:
Unit 3 – Day 3 HW	Date:
Define: 1. Complementary Angles:	
2. Vertical Angles:	
3. Segment Bisector:	
Write the definition as a bi-conditional (if and only if) 4. Supplementary Angles:	
Write the theorem and its converse each as a conditional. If the converse is also true, combine both statements into a single bi- conditional (if and only iff). 5. Complementary Theorem #1:	
Converse:	
Bi-Cond:	
Write the theorem and then use the theorem to make a 6. Supp. Theorem #2:	a true conclusion.
Given: $\angle 1$ is supplementary to $\angle 2$ . $\angle 3$ is supplementary to $\angle 2$ .	• <u>2</u> <u>3</u>
Conclusion:	
7. Supp. Theorem #3:	
Given: $\angle ACD \cong \angle BCD$ $\angle ACD$ supplementary to $\angle BCD$	
Conclusion:	A
8. Comp. Theorem #1:	
Given: $\angle 1 \cong \angle 3$ . $\angle 1$ is complementary to $\angle 2$ $\angle 3$ is complementary to $\angle 4$	1 $1$ $2$ $4$ $3$
Conclusion:	

## For the given fact(s), write the conclusion(s) and reason(s) in Two-Column format. (Do not write the givens in the statement column for these questions.)

