Name: ..... Class: .....

Complete the two-column proof to show that
If ∠1 and ∠2 are supplementary and m ∠1=m ∠2,
Then ∠1 and ∠2 are right angles.
Given: ∠1 and ∠2 are supplementary; m ∠1 = m ∠2
Prove: ∠1 and ∠2 are right angles

Substitution | Definition of Supplementary Angles | Definition of Right Angles | Simplify | Division Property of Equality | Given

Statements	Reasons
a. ∠1 and ∠2 are supplementary; m ∠1 = m ∠2	
b. m ∠1 + m ∠2 = 180	
c. m ∠1 + m ∠1 = 180	
d. 2(m ∠1) = 180	
e. m ∠1 = 90	
f. m ∠2 = 90	m ∠ 1 = m ∠2 (Given)
g. ∠1 and ∠2 are right angles	



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