Worksheet Exercise 2.6.C. Name _____

Truth-tables for Consistency Class _____ Date _____

Part C. Use complete truth-tables to determine whether the following sets of sentence forms are consistent. Be sure to label the columns as "sentence," or "aux." Use the space on these two pages efficiently.

1. p , p ⊃ q , ~q
2. ~p , p ⊃ q , q
3. ~p , p V q , p ≡ q
4. p , p & ~q , q V p
5. p ≡ q, p ≡ ~q
6. p & ~q , (p & r) ≡ q , p V r
7. ~(p & q) , ~(q & r) , ~(p & r)
8. ~(p V q) , ~(q V r) , ~(p V r)
9. ~(p ≡ q) , ~(q ≡ r) , ~(p ≡ r)
10. ((p & q) & ~(q & r)) & (p ⊃ r)

Ex. 2. 6. C. Name _____ / _____