Phil 57 section 3
Fall 2010

**Homework: Rules of Replacement**

*Using the rules of replacement and the rules of inference, prove the following:*

1. R, ~(~P ∨ ~Q) ∨ S, ~(Q • R)/ S

2. ((P • Q) ∨ R), ~(P ∨ ~R) / Q

3. (~R ∨ S), ((P ∨ Q) → (R • ~S)) / ~P

4. (P • (Q → R)), ~(R • P) / ~Q

5. (H → K), (C ↔ D), (~C → ~K) / (H → D)

6. (~P → (Q • R)), ~R / P

7. (~R ∨ ~S), (P → (R • S)) / ~P

8. ~P, ((P ∨ Q) ↔R), ~Q / ~(R • S)

9. (P ∨ (Q • R)), ~R / P