Worksheet Exercise 2.10.A. Name _____

The rules C.P. and I.P. Class _____ Date _____

Part A. Give deductions for the following arguments, using the rules C.P. and I.P.

(1)

1. (A V B)⊃(C & D) Prem ∴ A ⊃ D

(2)

1. (A V B) ⊃ (A & B) Prem ∴ A ≡ B

(3)

1. A V (B & C) Prem
2. A ⊃ D Prem
3. D ⊃ E Prem ∴ ~E ⊃ B

(4)

1. C ⊃ [A V (B & C)] Prem
2. ~B Prem ∴ C ⊃(A V D)

(5)

1. A ⊃ (B & C) Prem
2. (D & C) ⊃ (E & F) Prem ∴ (A & D) ⊃ E

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(6)

1. (A & ~B) ⊃ C Prem
2. B ⊃ C Prem
3. ~(~A & ~B) Prem ∴ C

(7)

1. A ⊃ ~B Prem
2. C ⊃ (D ⊃ B) Prem

∴ D ⊃ (~A V ~C)

(8)

1. E ⊃ (A ⊃ B) Prem

∴ E ⊃ [(A V B) ⊃ B]

(9)

1. (A & B) ⊃ C Prem
2. (A & ~B) ⊃ E Prem ∴ A ⊃ (C V E)

(10)

1. (A ⊃ B) V (A ⊃ C) Prem
2. B ⊃ D Prem
3. C ⊃ D Prem ∴ A ⊃ D