

RYERSON UNIVERSITY
MTH 714 LAB#4
DAY: OCTOBER 2, 2008

1. Exercise 1 from 3.7.

2. Exercise 3 from 3.7.

3. In the proof system \mathcal{H} , prove

$$\vdash \neg\neg A \rightarrow A$$

4. Recall (from this week's lectures) that in the Hilbert proof system \mathcal{H} we can introduce $A \vee B$ to mean $\neg A \rightarrow B$. Prove

$$\vdash (A \vee B) \leftrightarrow (B \vee A)$$

5. Exercise 15 from 3.7