Assignment 1
(Due Thursday, January 20, 2005)

Reading: §1.1, 1.2, A.1

Problems: §1.1: #4(b,d), 7, 8(a)
§A.1: #3
§A.2: #1(b) (Use Additional Problem 1 below.)

Additional Problems: 1. Let $P$, $Q$ and $R$ be statements. Construct truth tables for the compound statements:

$$P \text{ or } (Q \text{ and } R) \quad \text{and} \quad (P \text{ or } Q) \text{ and } (P \text{ or } R)$$

2. Show that the two compound statements in 1. are equivalent: either both are true or both are false.

3. Choose statements $P$, $Q$ and $R$ and write the two corresponding (grammatically correct) English sentences.