9/5/2001

Assignment #1

(All Problems Due Friday 9/12/01.)

Section 1.4, # 19a.

Section 3.1, # 1. Section 3.1, # 2. Section 3.1, # 3. Section 3.1, # 4. Section 1.2, # 6. Section 1.3, # 9. Section 1.3, # 14. Section 1.3, # 16b.

Additional I. Suppose A is a σ -algebra of subsets of Y. Suppose f : X = Y and define

 $B = \{f^{-1}(E) : E \quad A\}.$

Show *B* is a σ -algebra of subsets of *X*.

Note. The problems from sections 1.2 and 1.3 are review, and can be started immediately.