

Bent E. Sørensen

**ECONOMICS 6331 – Probability and Statistics, Fall 2004**

Homework 4. Monday September 20, 2004. Due Monday September 27.

1. Ramanathan, Practice Problem 3.7, page 43.
2. Ramanathan, Practice Problem 3.8, page 47.
3. If  $X$  is a Binomially distributed random variable with  $p = .03$  and  $n = 2$ , what is the mean and variance of  $X$ ?
4. Ramanathan, Practice Problem 3.9, page 48. (Check that your answer agrees with what you got in question 3.)