Due: Thursday, February 12, 2007

C 12: A factory makes 10% defective items & items are independently defective. Find P  $\{9 \text{ or more good items in } 10\}$ :

a. Using X = # good items, and Binomial probability distribution function. (0. 736)

b. Using X = # bad items, and Binomial probability distribution function. (0.736)

5.13, 5.14 (Bi(15,0.5), 0.5) 5.25 (b), 5.27 (b)

Rework, using the Binomial Distribution: 4.36 C12 (a)

HW C13: For each of the following, formulate quantitative H0 and H1:

(a) We now buy sheet metal from A & 90% of the time it meets our specs. B claims more of their sheet metal meets our specs.

(let p = % from B meeting specs, H0:  $p \le 0.9$  H1: p > 0.9)

- (b) Test the claim that on average girls score differently from boys on achievement tests.
- (c) Test the claim that on average girls score better than boys on achievement tests.
- (d) Test a claim that 70% of consumers prefer Brand A.
- (e) Test a claim that at least 70% of consumers prefer Brand A.