Statistics 31, Section 3, Homework # 9

Due: Thursday, October 26, 2000

4.30 (no, dependent), 4.31

4.28 (P{win big} = 0.6, P{win 3 small} = $(0.8)^3$)

4.29

B10: Suppose events A, B, C all have probability 0.4, A and B are independent, and A and C are mutually exclusive.
(a) Find P{A or B} (0.64)
(b) Find P{A or C} (0.8)
(c) Find P{A and B} (0.16)
(d) Find P{A and C} (0)

4.33, 4.35

4.39

4.41 and (f) P{X = 4 | X <= 8} (0.145)

4.43

4.45, 4.47, 4.49 (hint: use Excel)

4.51, 4.52 (0.99058, $303.35), 4.54 ($0.50)

4.53

4.59, 4.60 (70)

4.55, 4.57

4.61, 4.63

4.65, 4.69