MA 485-1E (Probability Theory), Dr. Chernov Due Mon, Sep 15

Assignment #3

Chapter III. Problems 3.4.6, 3.5.15.

Two more problem are given below:

2-A. Roll two dice. Let A = "The first die is odd", B = "The second die is odd" and C = "The sum is odd". Show that these three events are pairwise independent but not jointly independent.

2-B. Three couples that were invited to dinner will independently show up with probabilities 0.9, 0.8 and 0.7. Let N be the number of couples that show up. Find the probability that N = 3, 2, 1, 0.

The starred problems are for extra credit. Each problem is graded on the base of "4 points max".