MA 485-1E (Probability Theory), Dr. Chernov Assignment #3
Due Mon, Sep 16

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".