

MA 485-1E (Probability Theory), Dr. Chernov  
Due Mon, Nov 25

Assignment #13

Chapter X. Problems 10.5.1, 10.5.5, 10.5.8\*.

One more problem:

**13-A.** Suppose the weight of a certain brand of bolt has mean of 1 gram and a standard deviation of 0.06 gram. Use the central limit theorem to estimate the probability that 100 of these bolts weigh more than 101 grams. Use histogram correction if necessary.

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