# Homework Set 7

Due: Apr 6, 2020 (via Blackboard by 11:00am)

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**To be handed in:**

*Please write your solution to Problems 1 and 2 on a single sheet of paper!*

1. If 10% of products manufactured at a certain industry are defective, what is the probability that a random batch of 10 products from this industry contain:

   a) No defective products?

   b) At least 3 defective products?

2. Suppose that phone calls to the President's office at Lehman College arrive independently and at random, with outside calls arriving at an average rate of 3 in any 10 minute period, and inside calls at an average rate of 4 in any 10 minute period. Compute the probability that 2 or more calls arrive in any 2 minute period.

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