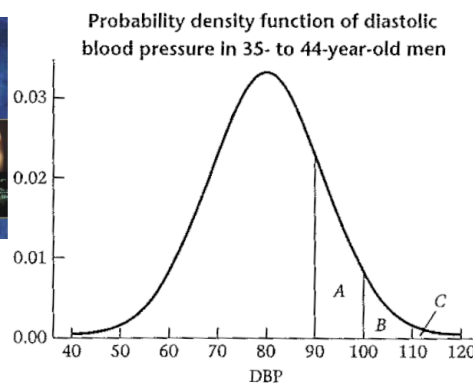
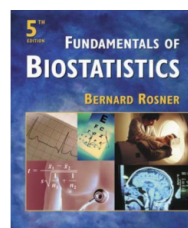


Homework #2

Student name:

Course: 2024 *Statistics for Medicine* – Professor: Massimo Borelli
Due date: January 24th, 2024

Question



1. Refer to the above graph as proposed by Bernard Rosner, concerning the normally distributed diastolic blood pressure.
2. (Integration) Evaluate by means of JASP the probabilities of region A , B and C .
3. (Not compulsory - optional for experienced students) **the Monte Carlo methods.** Simulate 10000 normally distributed random point to replicate the above graph, and numerically compute the estimates for A , B and C . Verify the equivalence of findings.
4. Report the 2. (and optionally the 3.) outputs, eventually arranged in a more readable form, into the **Answer** section of the present Homework # 2.
5. Go to <https://forms.gle/12u14E7d2j7vuhts7> in order to upload your final .pdf document.

Answer.