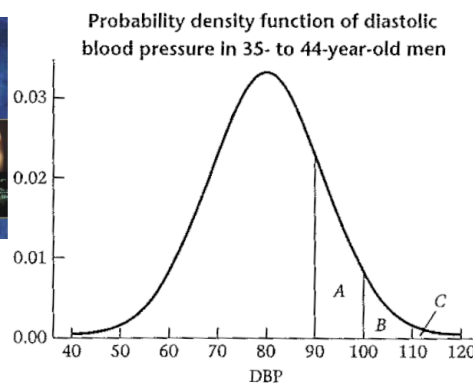
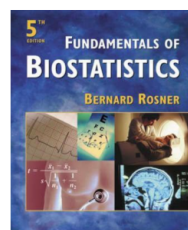


Homework #2

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/GotQxrQuaDMyLKps6> in order to upload your final .pdf document.

Answer.