MIDTERM I COMMON MISTAKES

Spring 2023

https://www.phys.uconn.edu/~rozman/Courses/P2400_23S/

Last modified: March 7, 2023

Problem 1:

This is not a calculator or a CAS problem. Zero points are given if those tools are used, or if no explanation on how the answer was derived is provided. (The latter is per exam grading policy.)

Problem 2:

- 1. 5 points are taken off if only one value for the answer is obtained
- 2. 1 point is taken off if the value of n that labels different values in the answer is wrong or missing

Problem 3:

The problem is about most important properties of Gamma function. 5 points are taken if the wrong relation $\Gamma(n) = n!$ is used.

Problem 4:

5 points are taken off in Part (a) if the Laplace equation test is not used (and instead the task of Part (b) is repeated 3 times).

Problem 5:

5 points are taken off if the integral is not reduced to the requested form $\int_{0}^{1} u^{\alpha-1} (1-u)^{\beta-1} du.$

Problem 6:

10 points are taken off if only one extremum is located.