

In the name of God

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ADVANCED METHODS ON COMPUTATIONAL PHYSICS

Exercise Set 3

(Date Due: 1400/01/31)

1. Using Box muller method, generate Gaussian random data. Check the pdf of generated data sets.
2. According to Von-Neumann method, generate a set of random data set in the range $x \in [1 - 5]$ with PDF as: $p(x) = \sin(x^2/100) + \frac{1}{\cos(x^3/100)} + x^{-3}$.

Good luck, Movahed
