

CP PS1

Shadi Ali Ahmad

September 5, 2023

Abstract

This is Shadi's LaTeX PS1 submission for Professor Blanton's Computational Physics first problem set during Fall 2023. My GitHub account name is shadi-r-aa.

1 Computing background

I have coded minimally during college, and the most I have done is produce pretty plots for some of my papers using Mathematica.

2 Goals

I am looking forward to learning more about computing, especially since I am interested in complexity classes and would like to understand them at a deeper level. I would also like to get better at numerical integration and simulations, as many times in my research, it is almost impossible to get an analytic expression for some problems.

3 Plans

My future plan, for now, is to remain in academia.

4 Gaussian plot

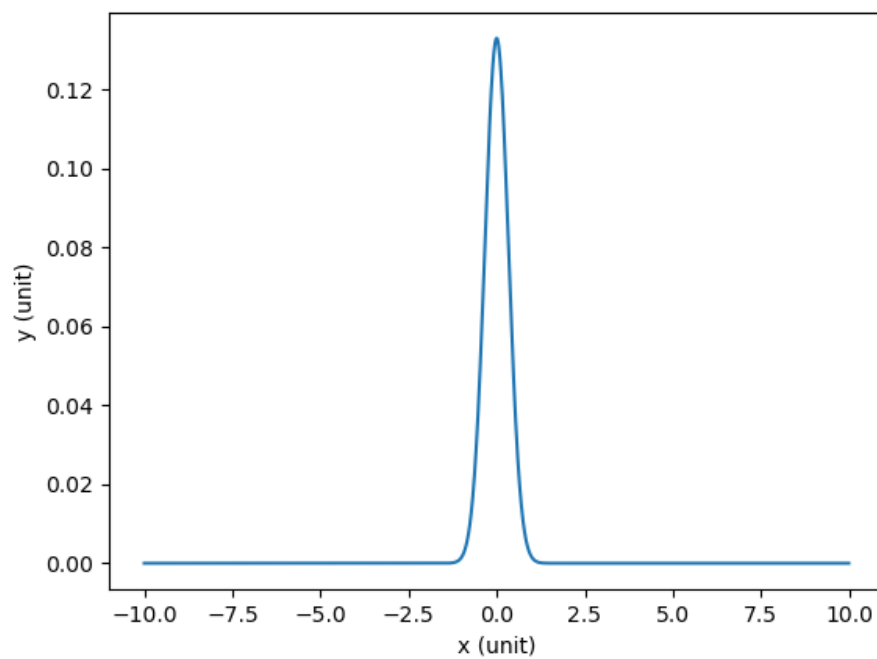


Figure 1: A Gaussian $y(x)$ with zero mean and a standard deviation of 3 is shown across the range $x \in [-10, 10]$.