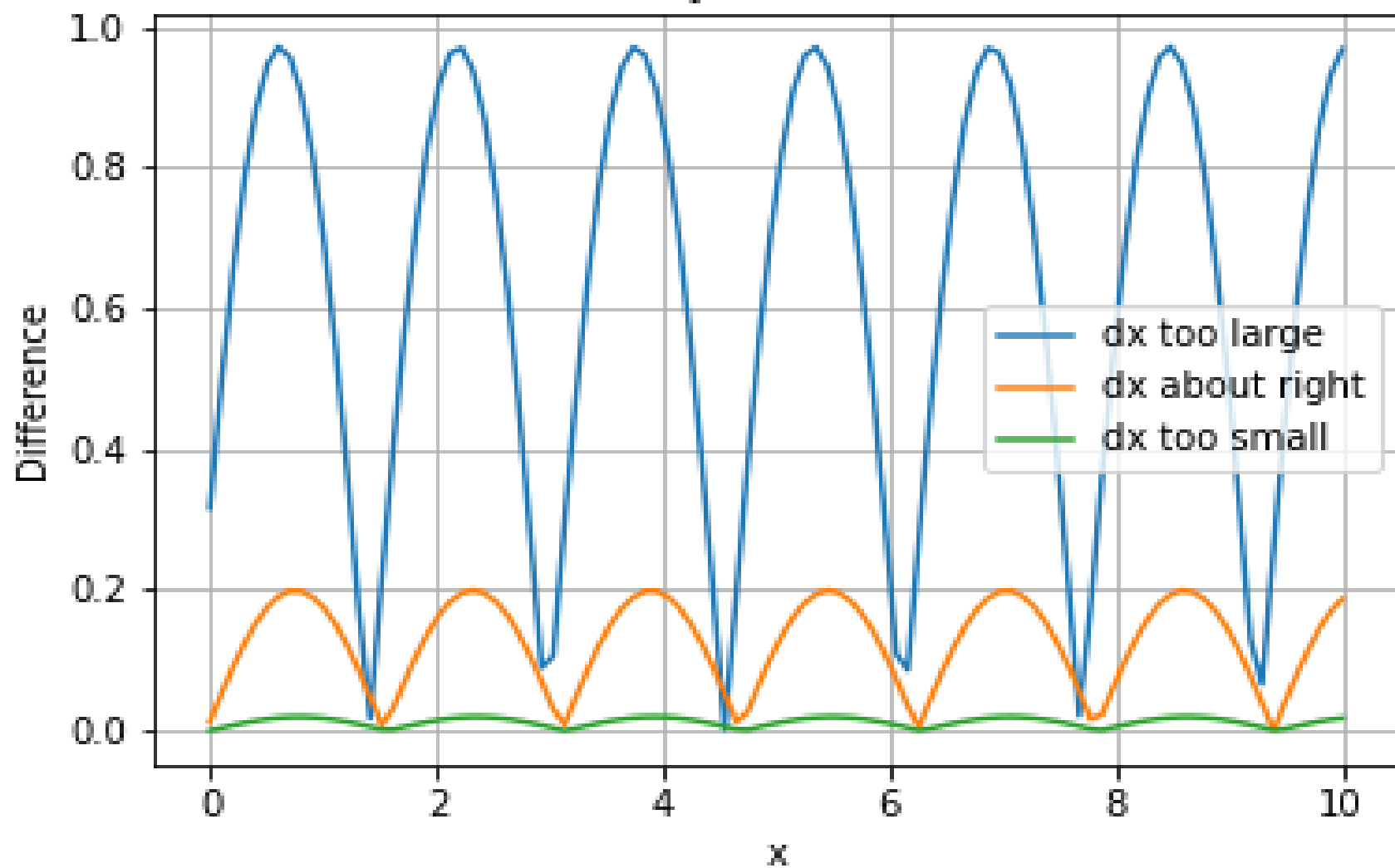
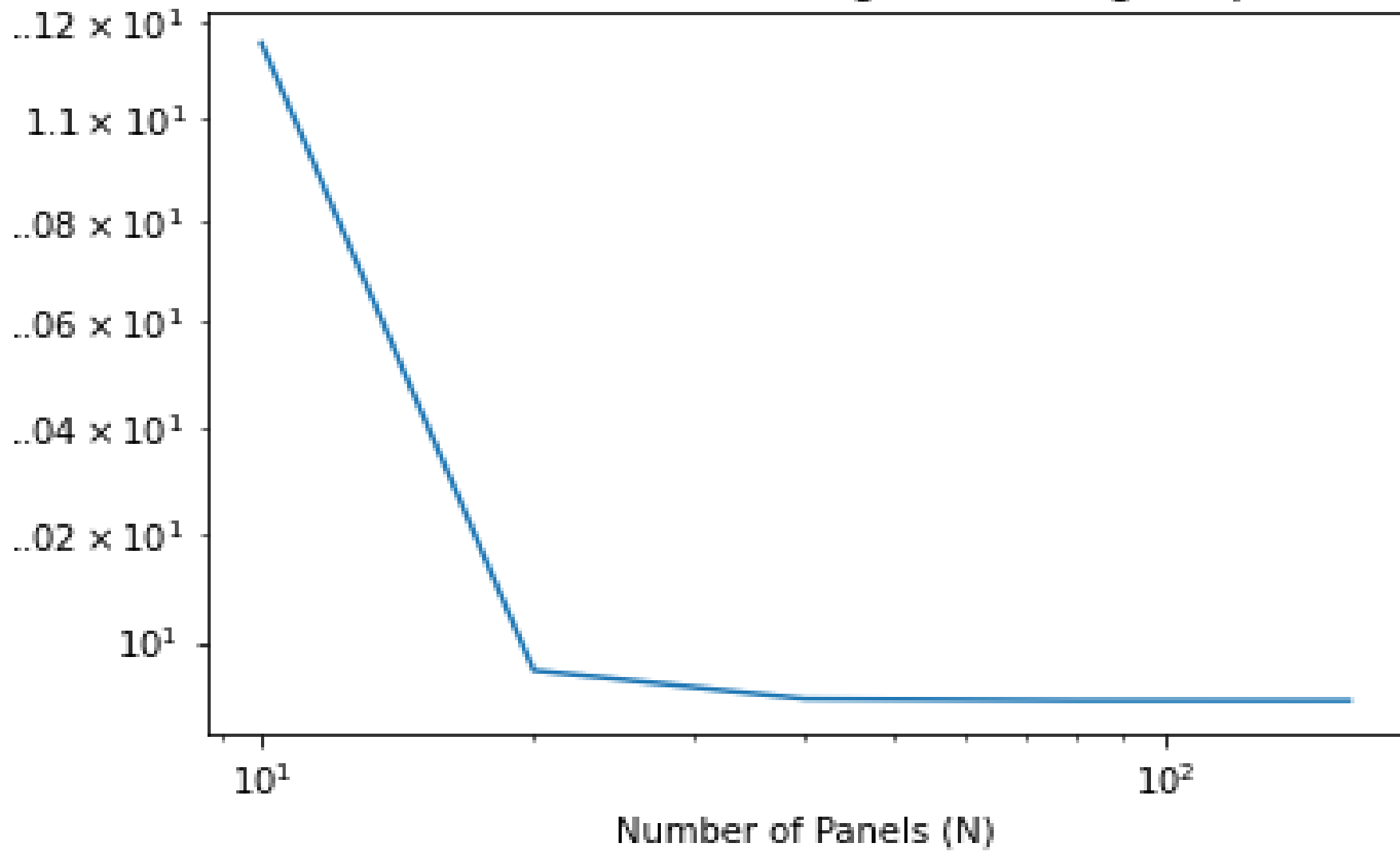


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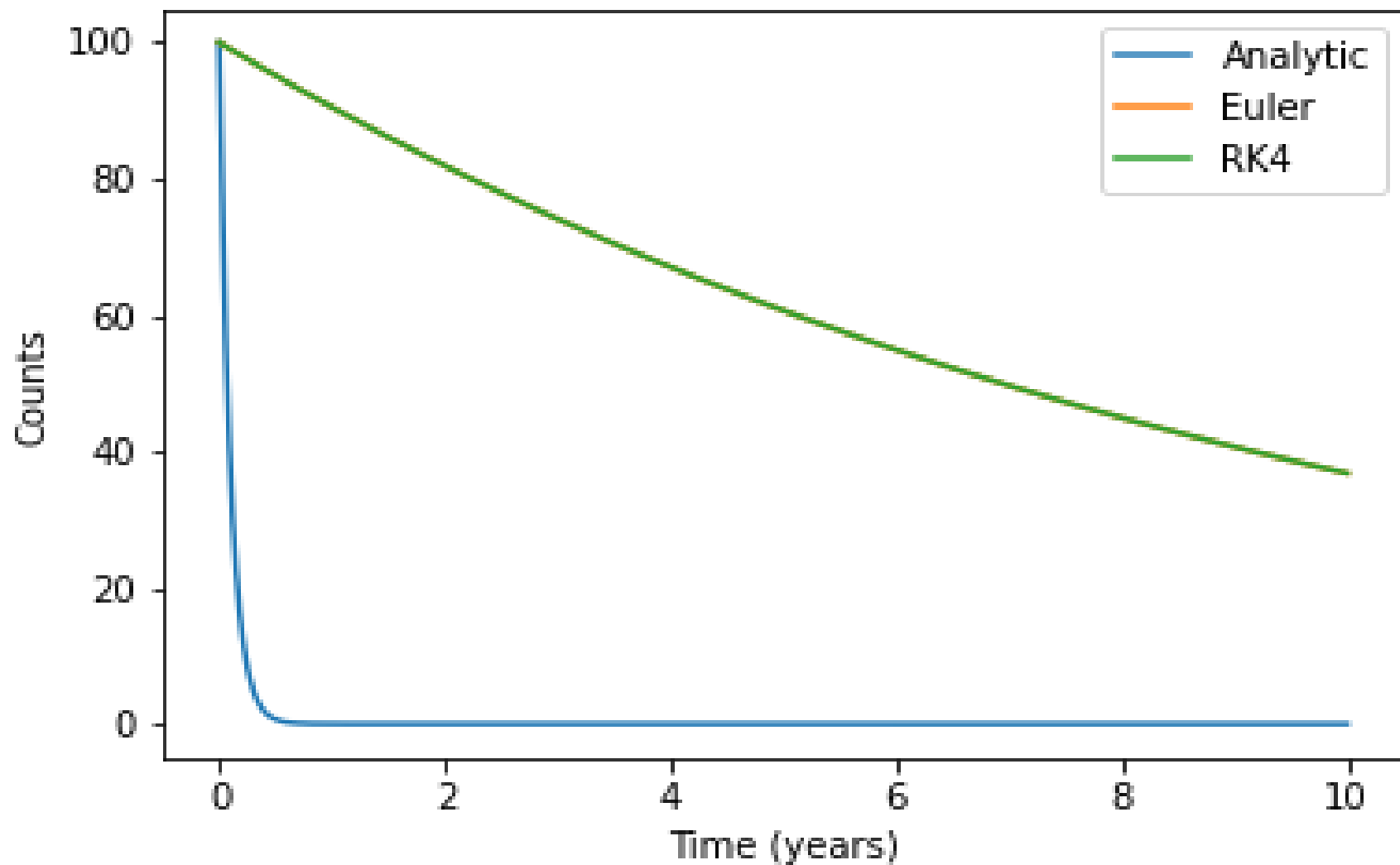
Difference between Analytical and Numerical Derivatives



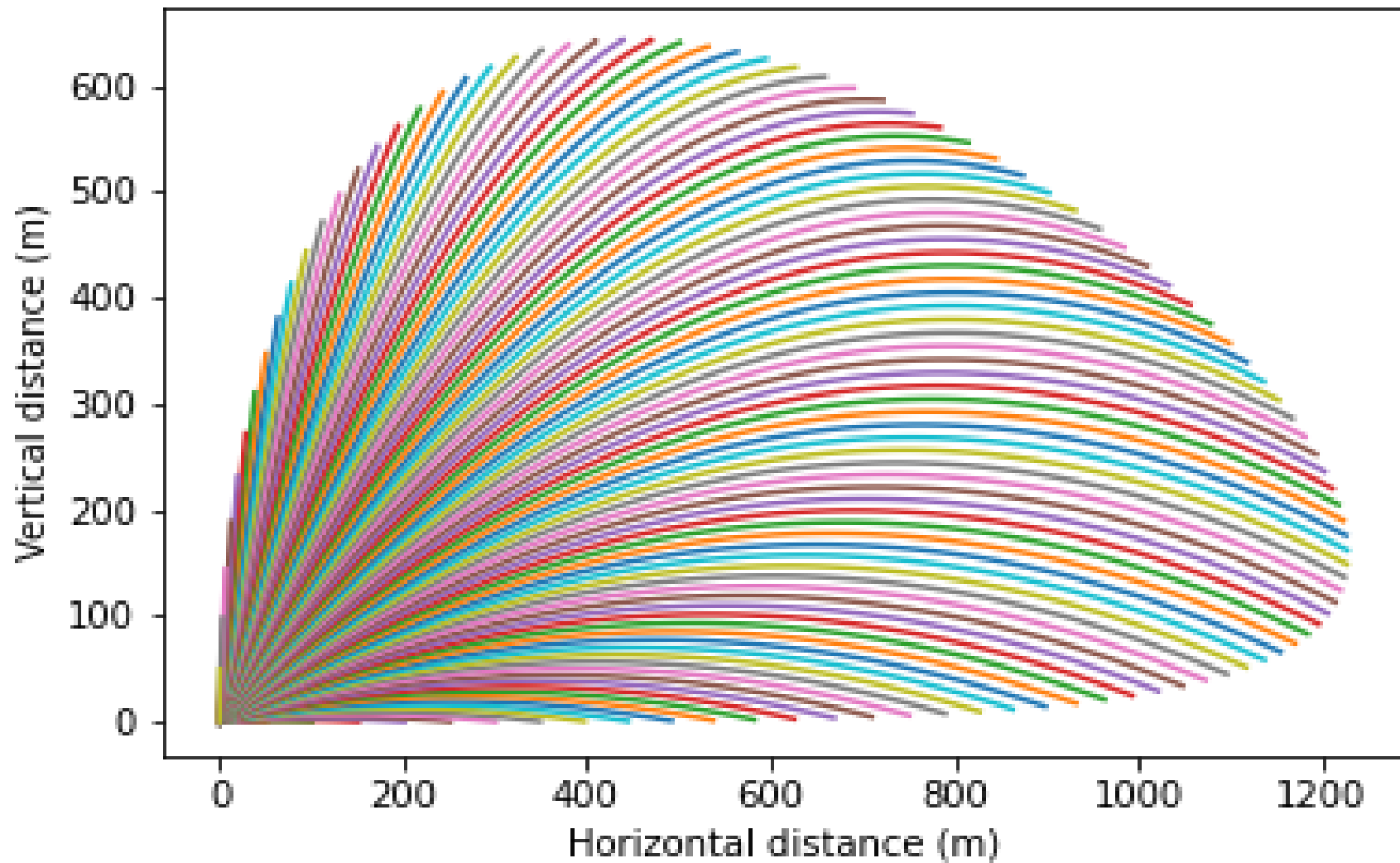
Fractional Error in Numerical Integration using Simpson's Rule



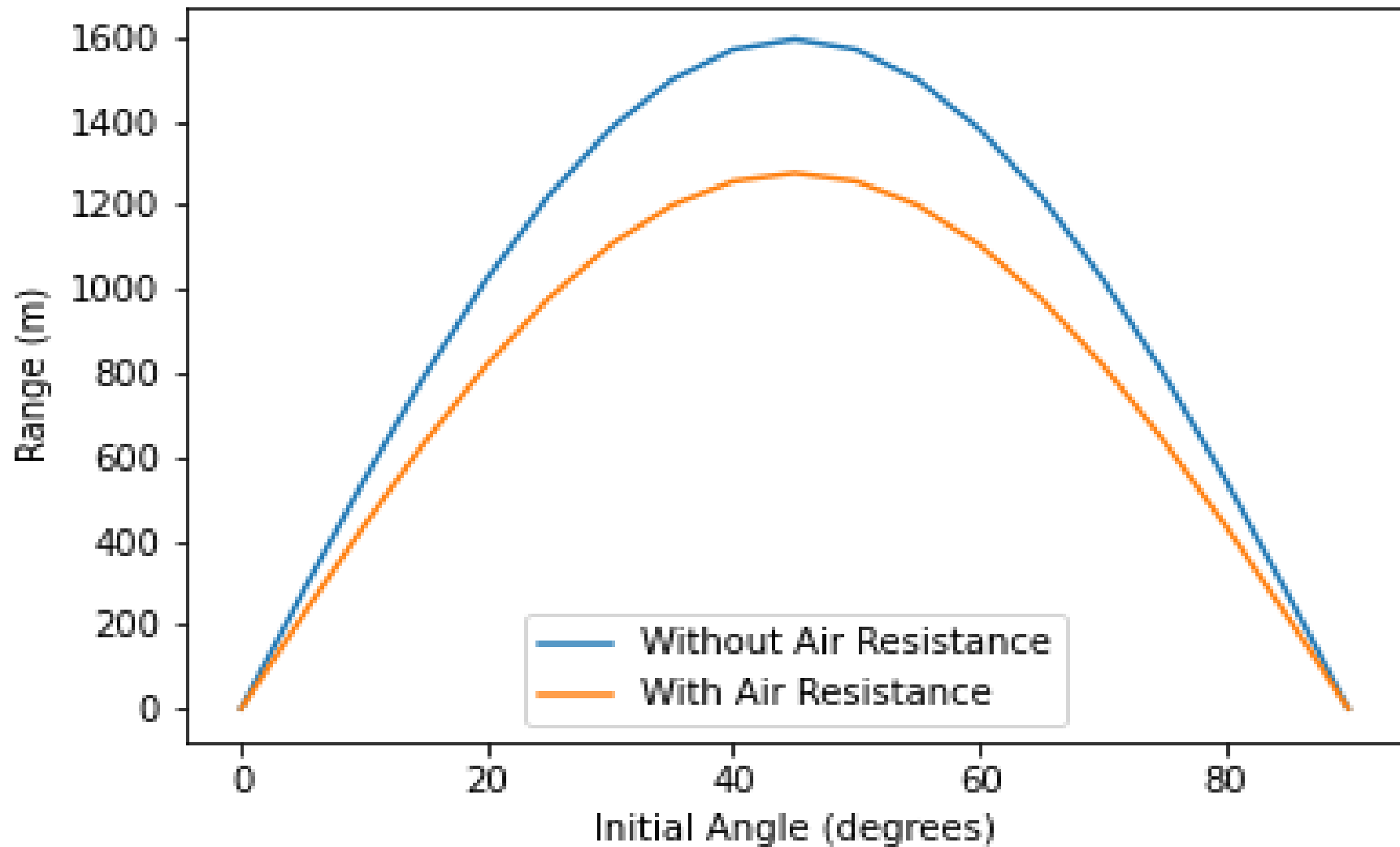
Comparison of Analytic, Euler and RK4 Methods



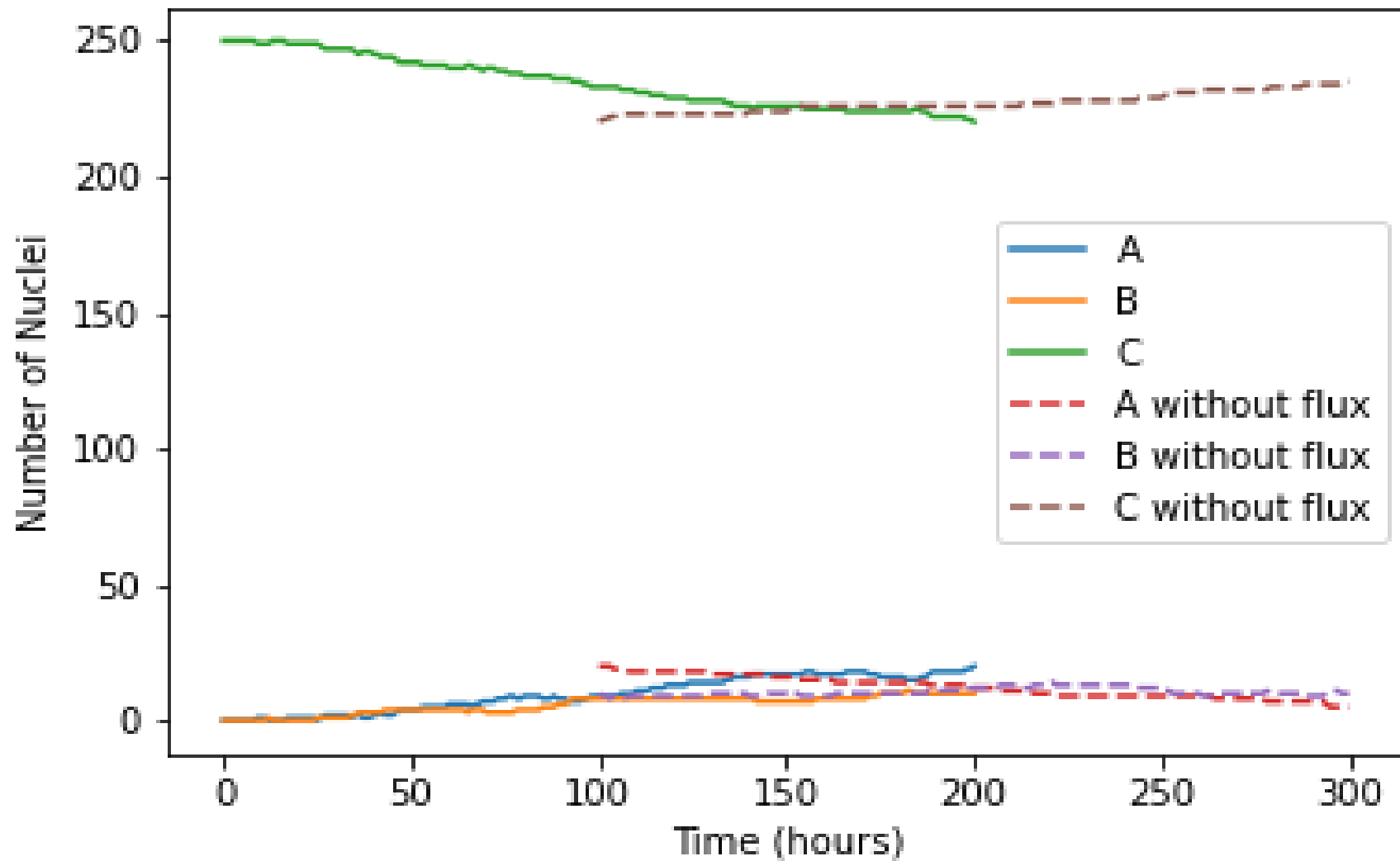
Projectile trajectories for different angles



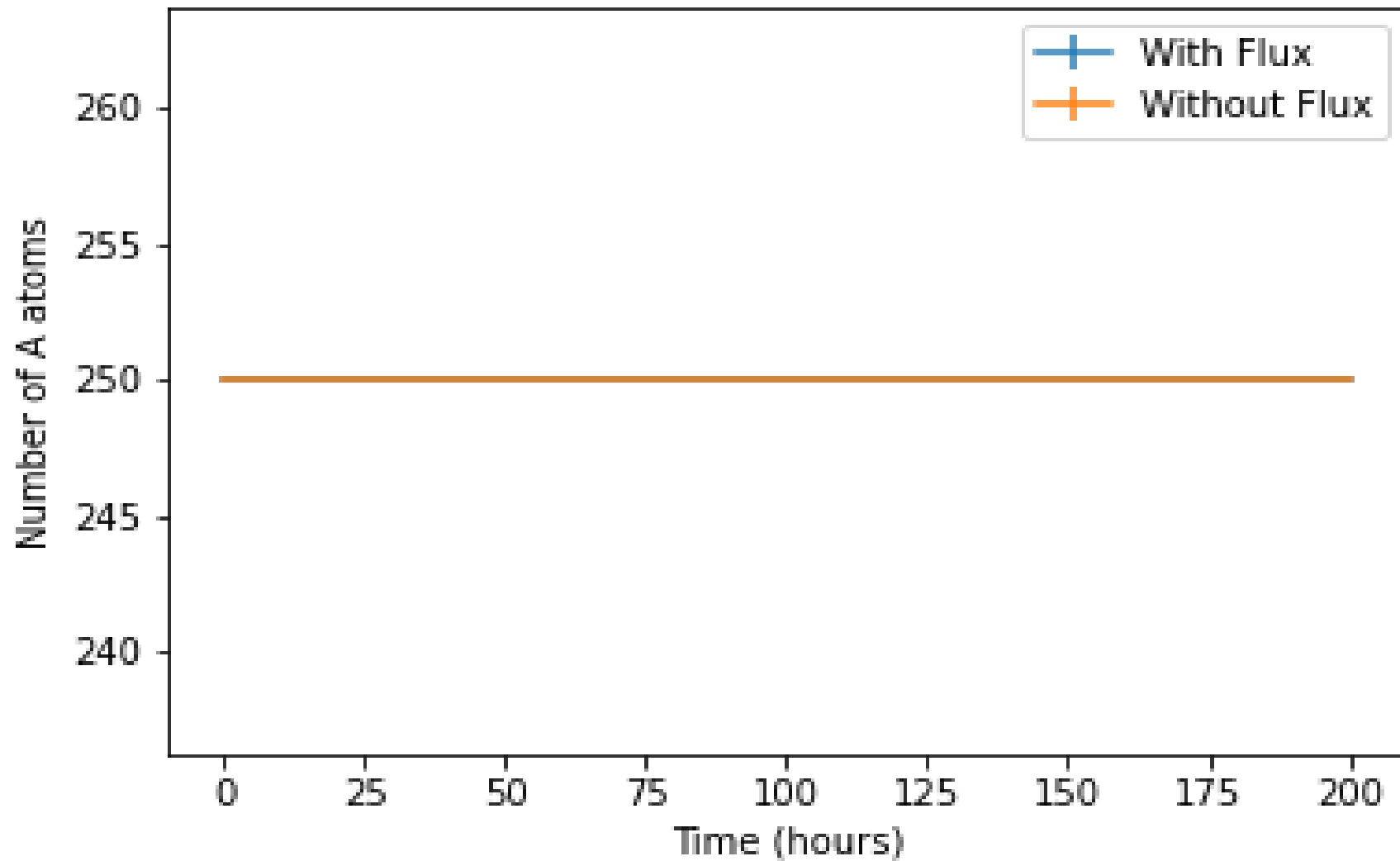
Range of Projectile with and without Air Resistance



Nuclei Evolution

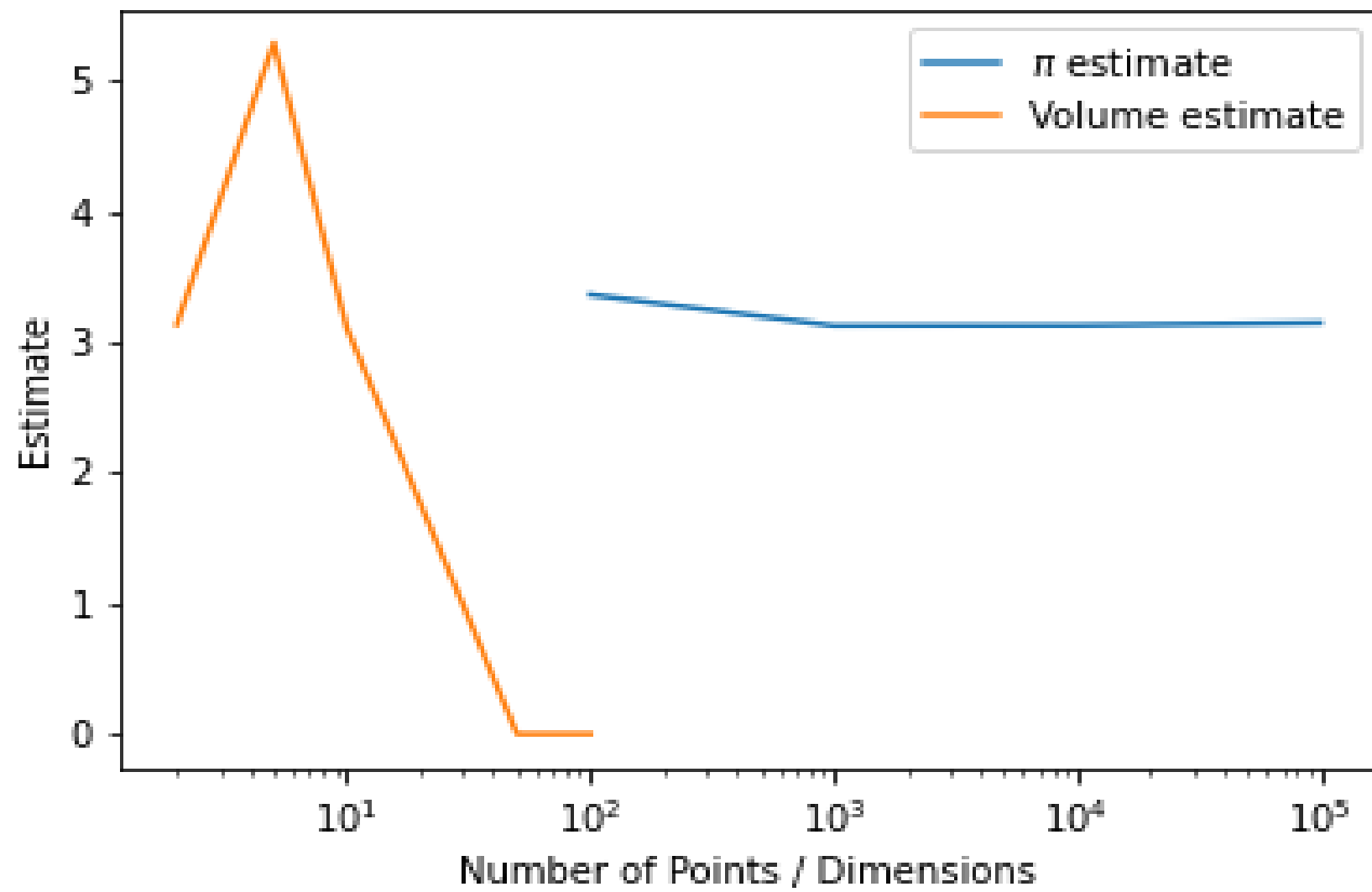


Number of A atoms as a function of time

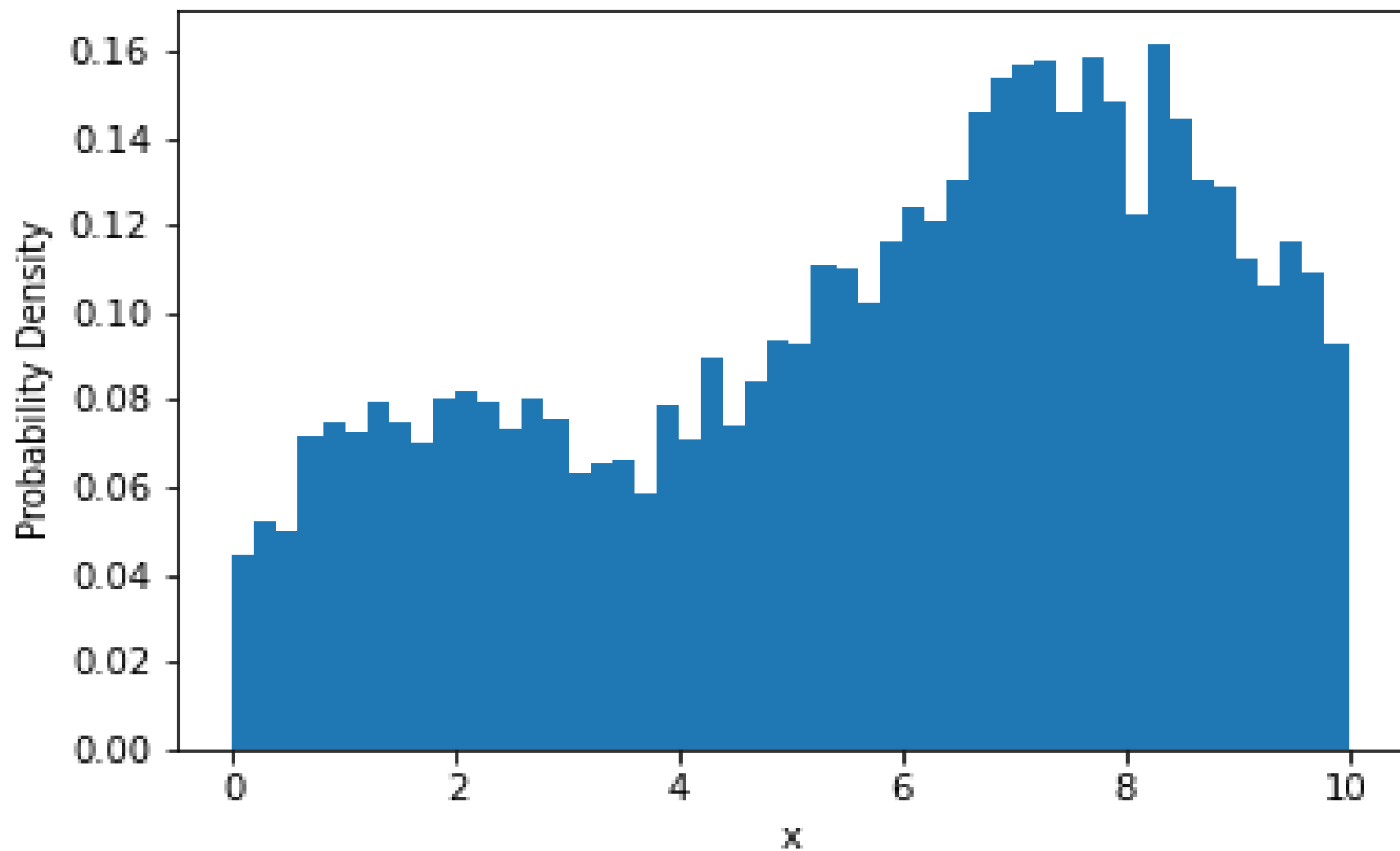




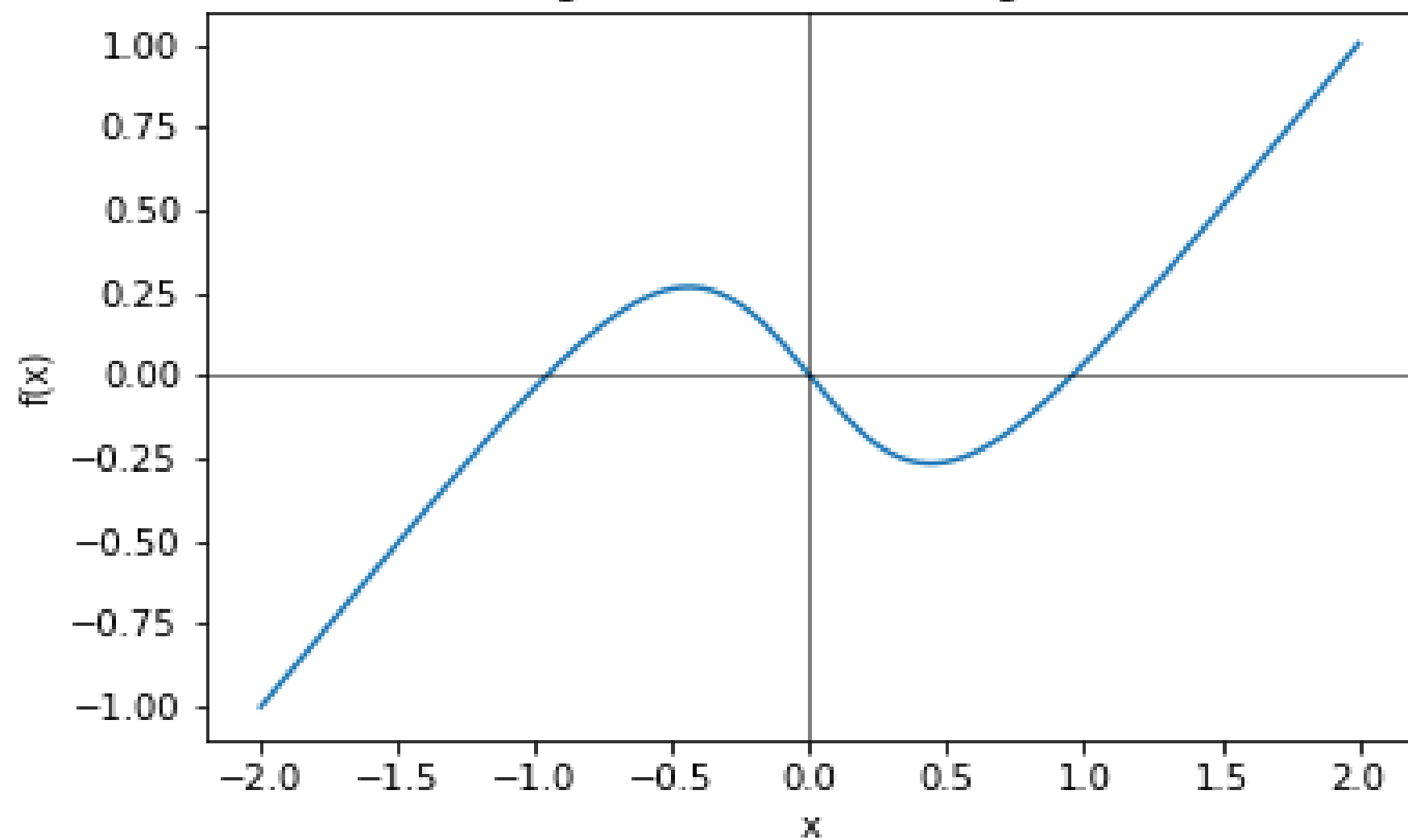
## Monte Carlo Estimation



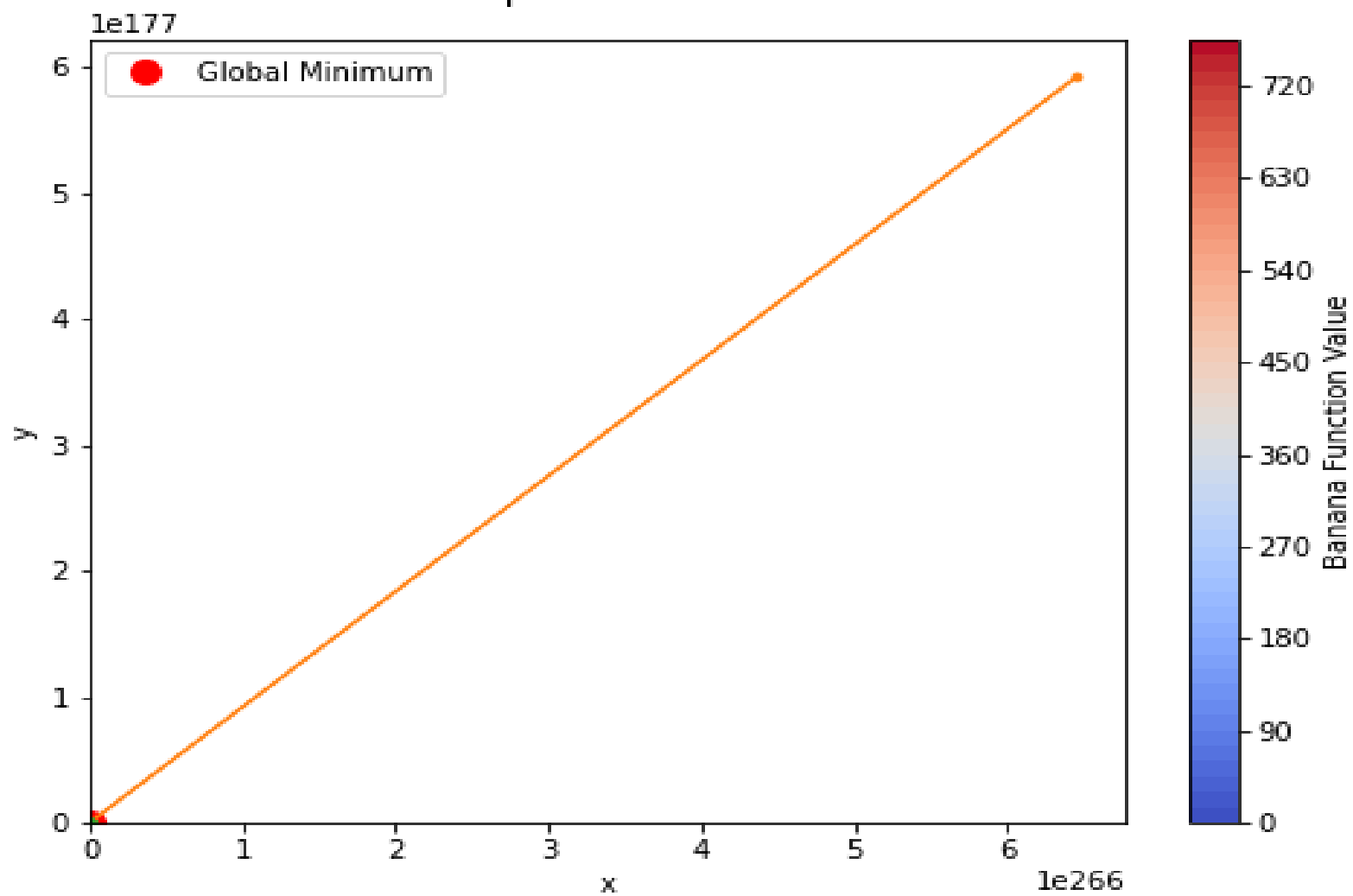
Distribution of Sampled Values



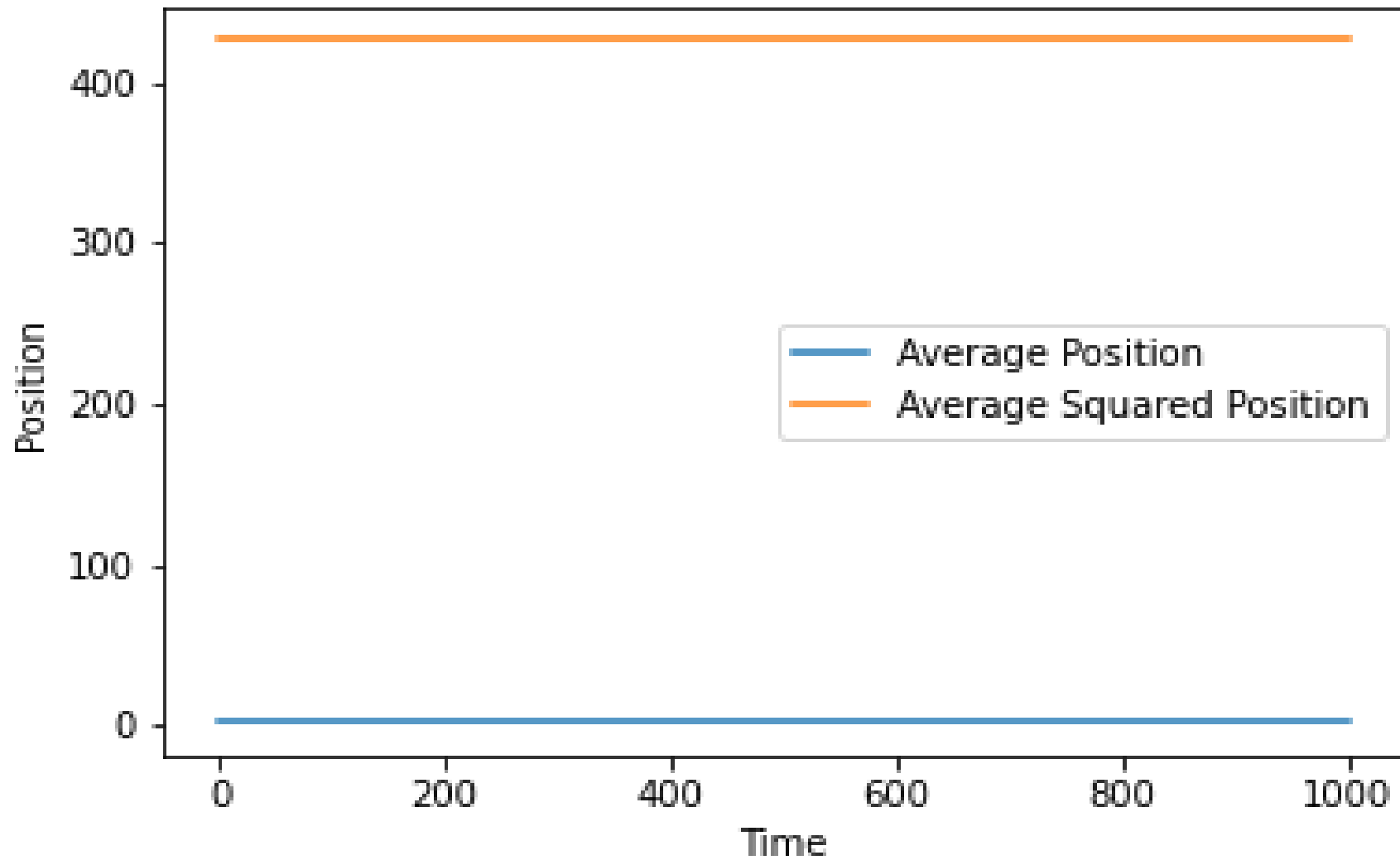
Convergence of Root Finding Methods



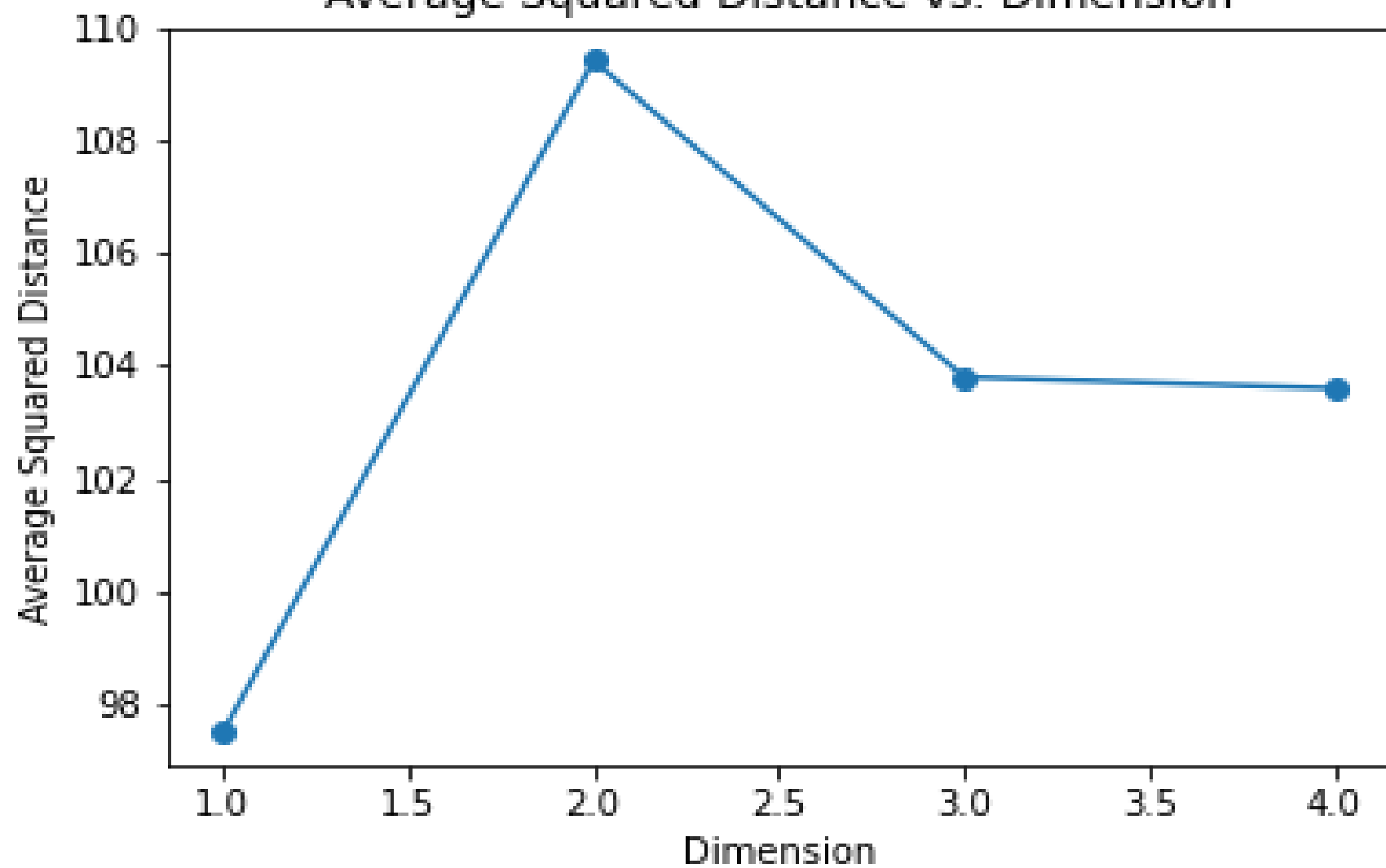
Gradient Descent Optimization on Banana Function



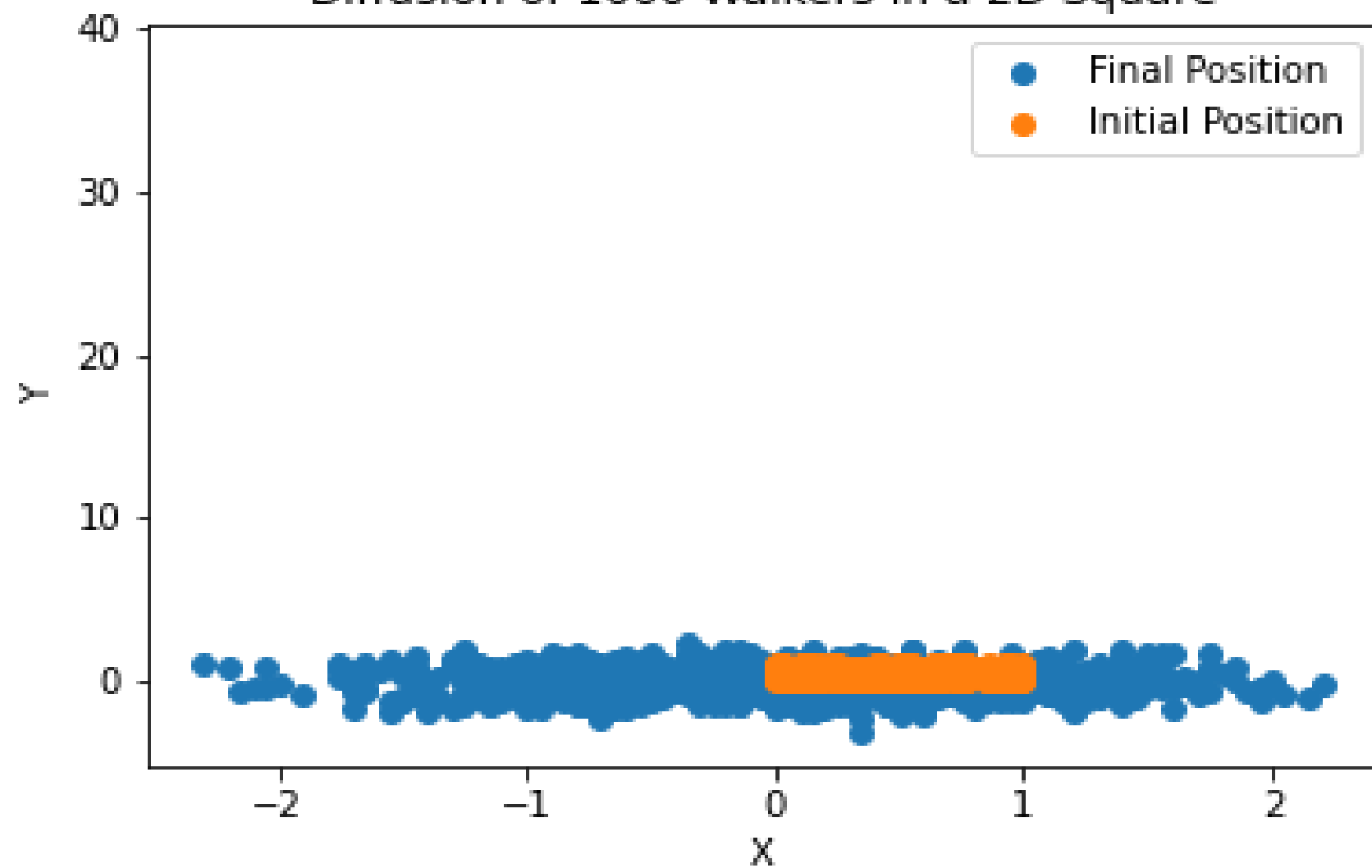
Average Position and Average Squared Position of 100 1D Walkers



Average Squared Distance vs. Dimension



Diffusion of 1000 Walkers in a 2D Square



AI?