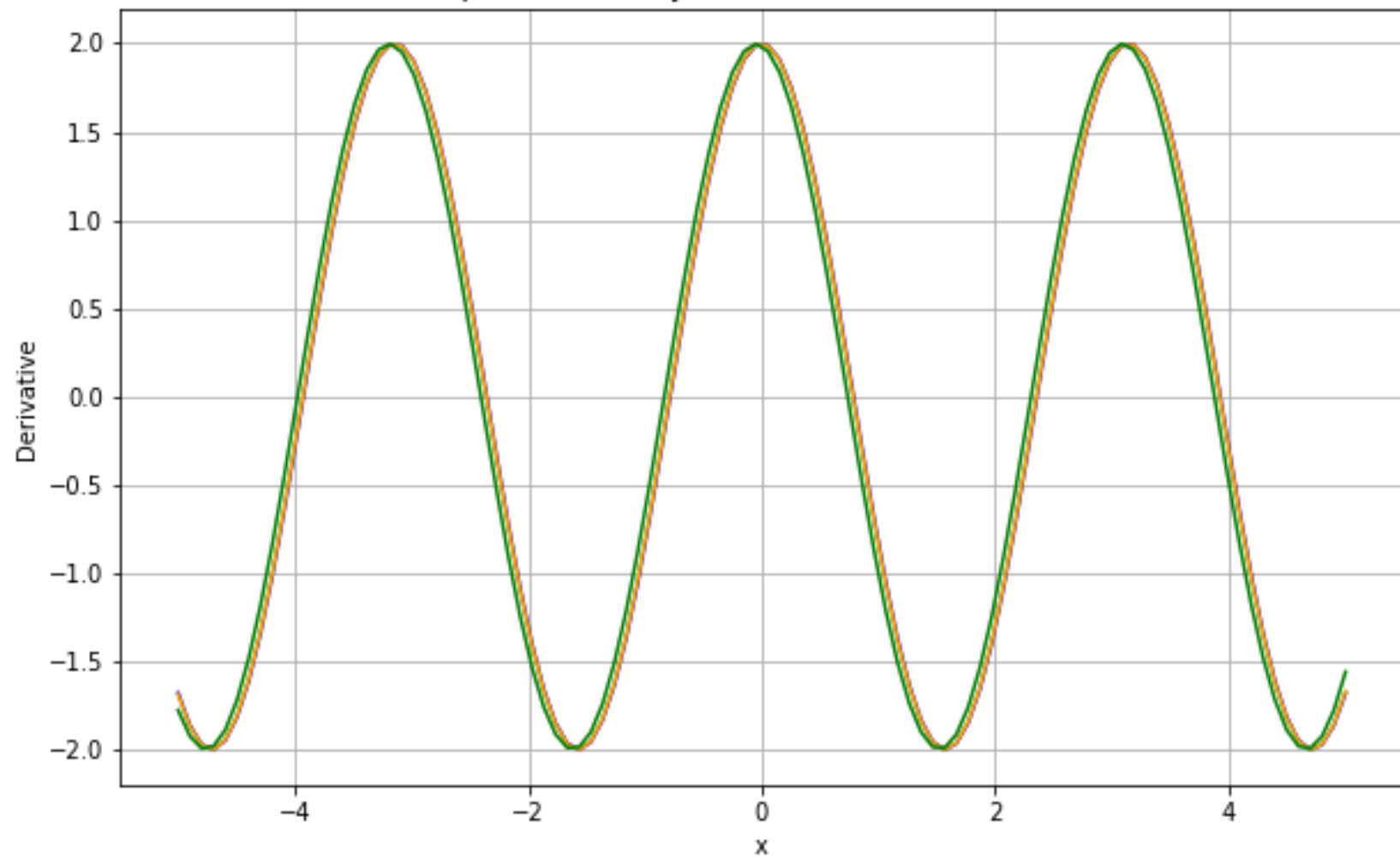
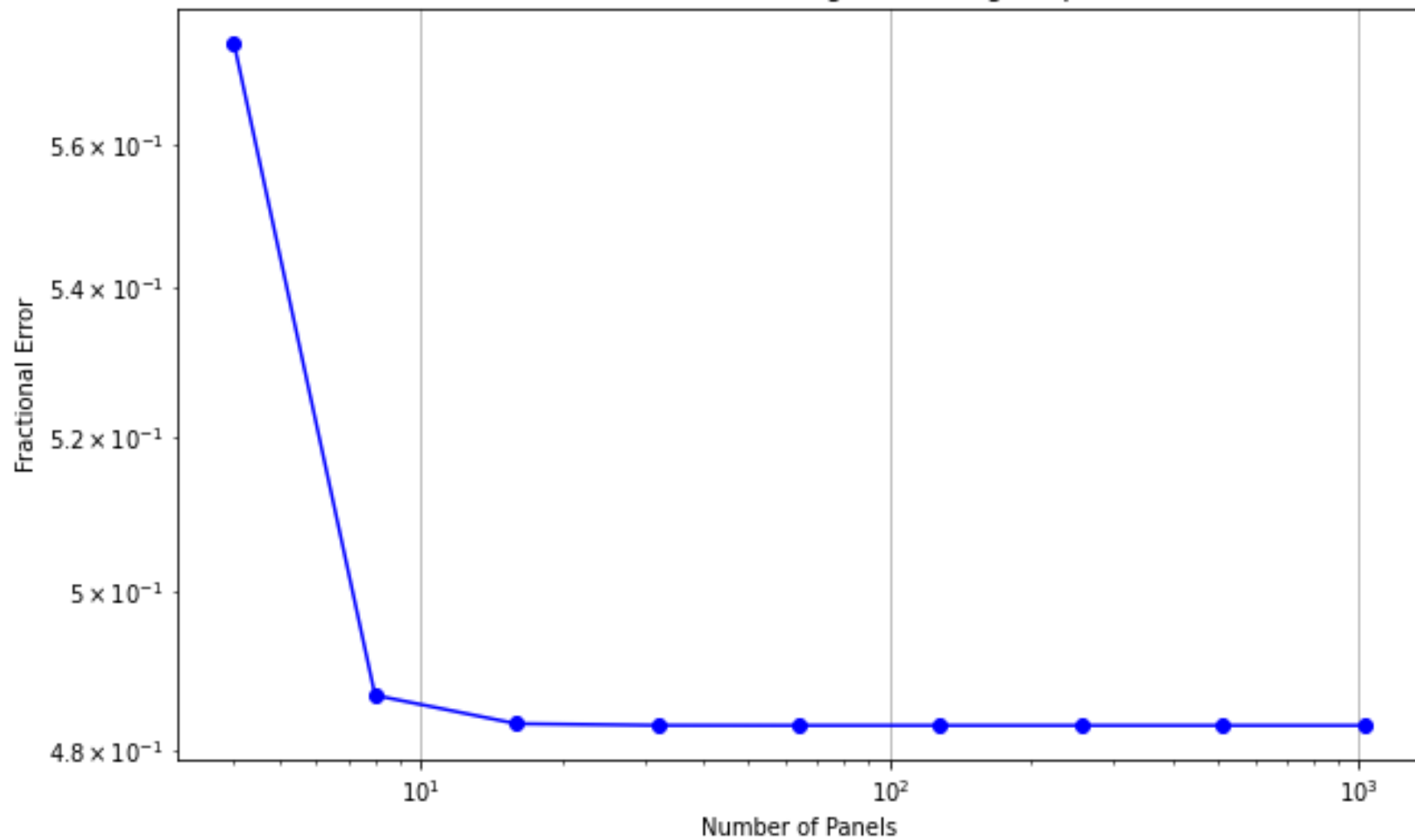


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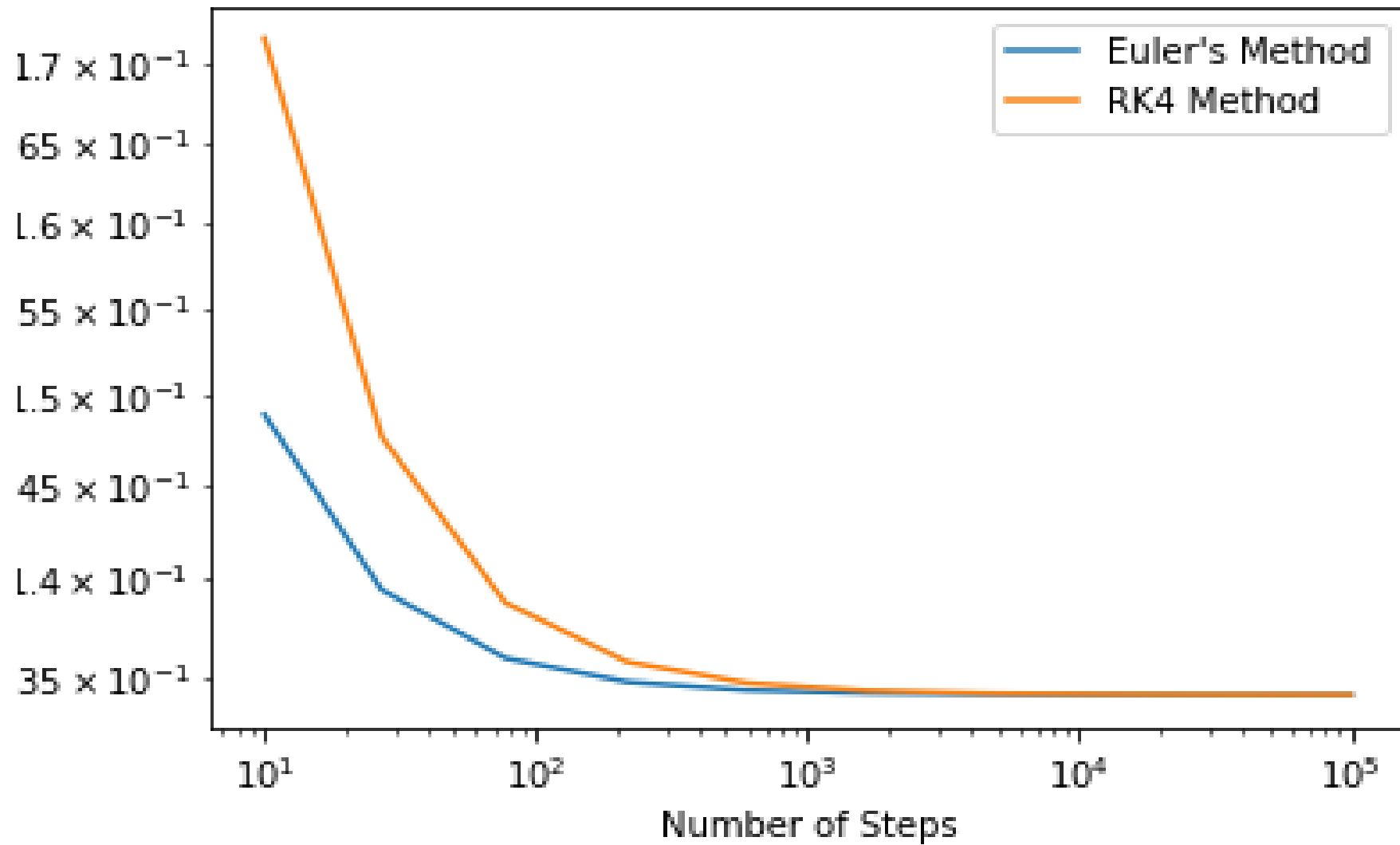
Comparison of Analytical and Numerical Derivatives



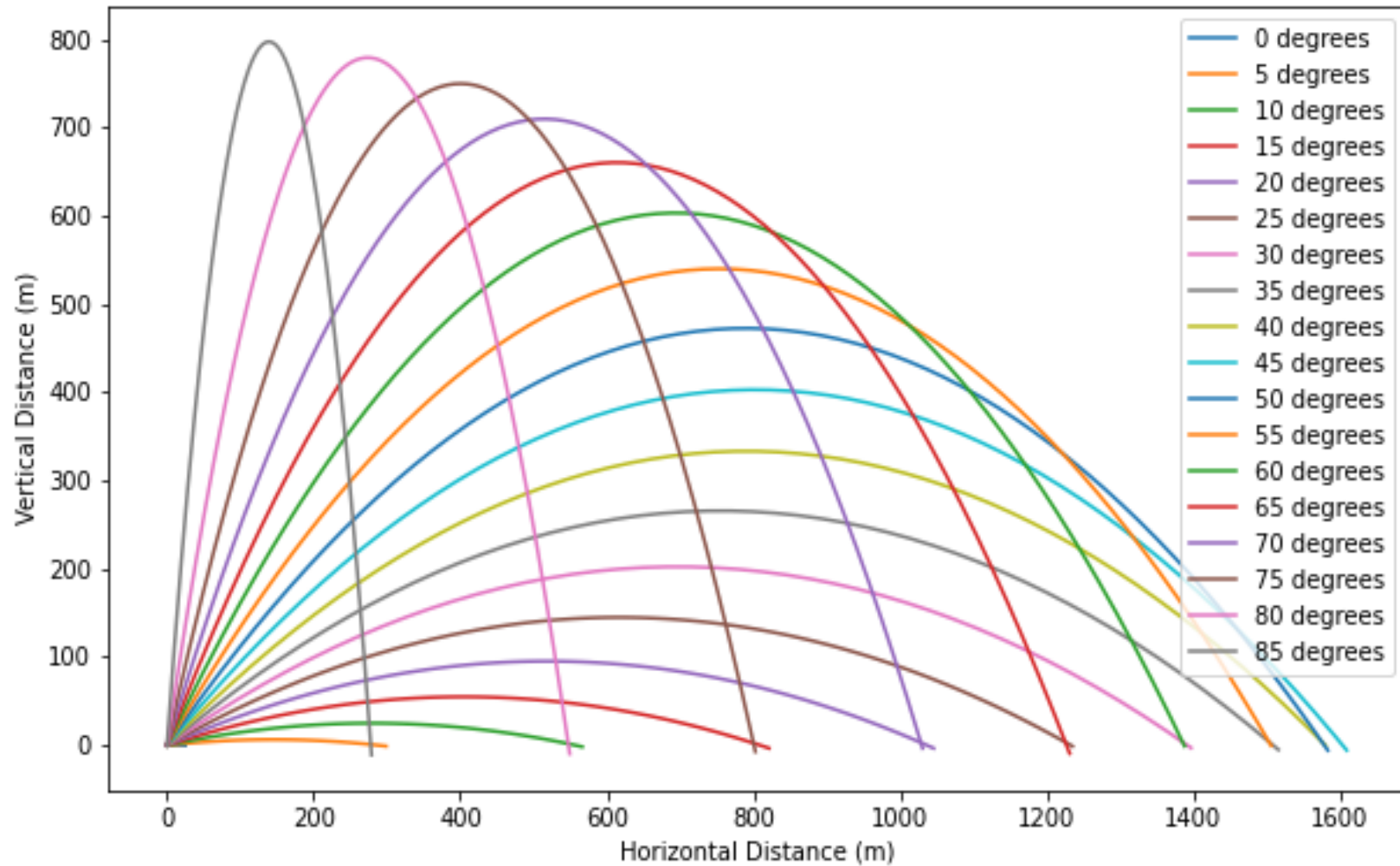
Fractional Error in Numerical Integration using Simpson's Rule



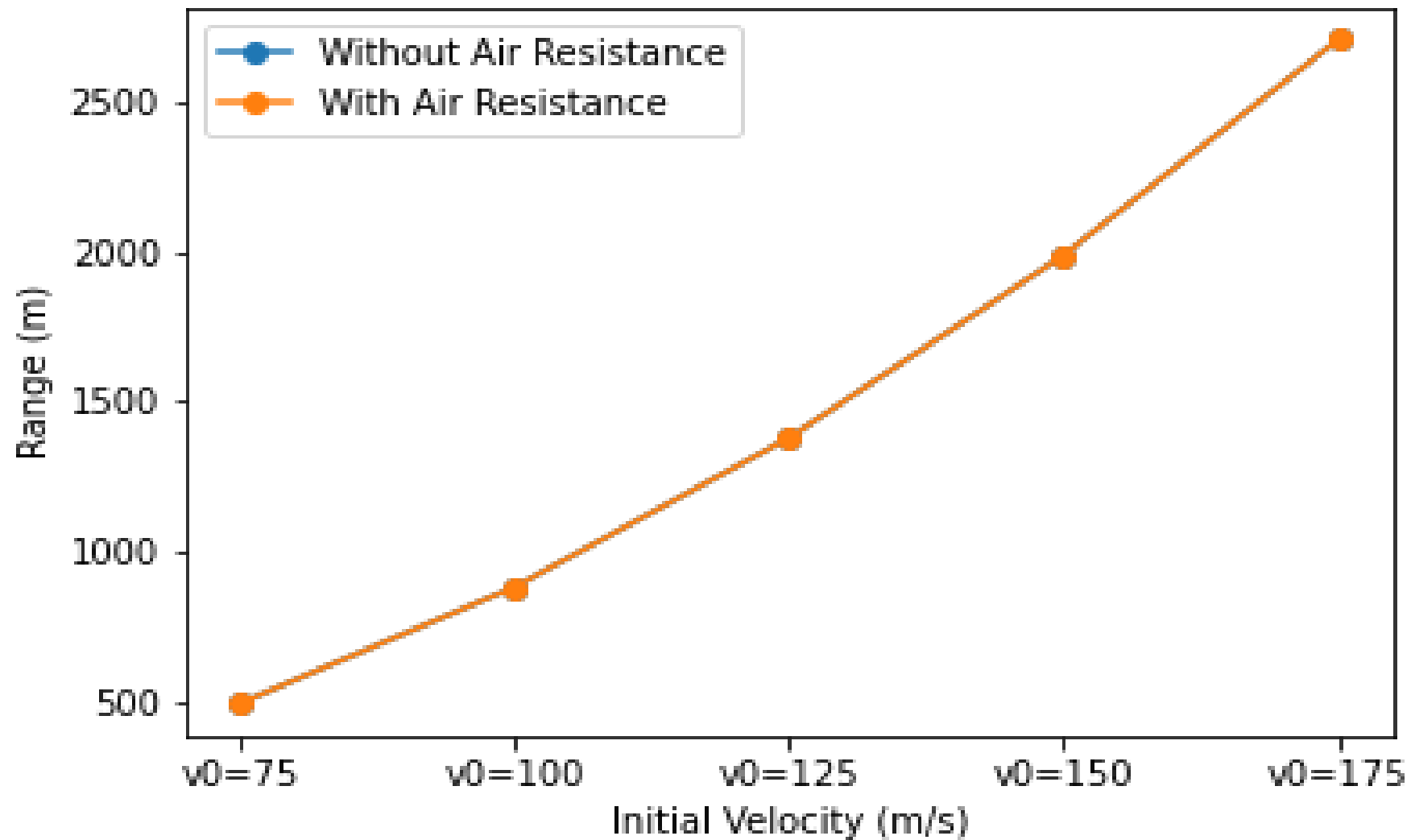
Comparison of Errors in Euler's and RK4 Methods



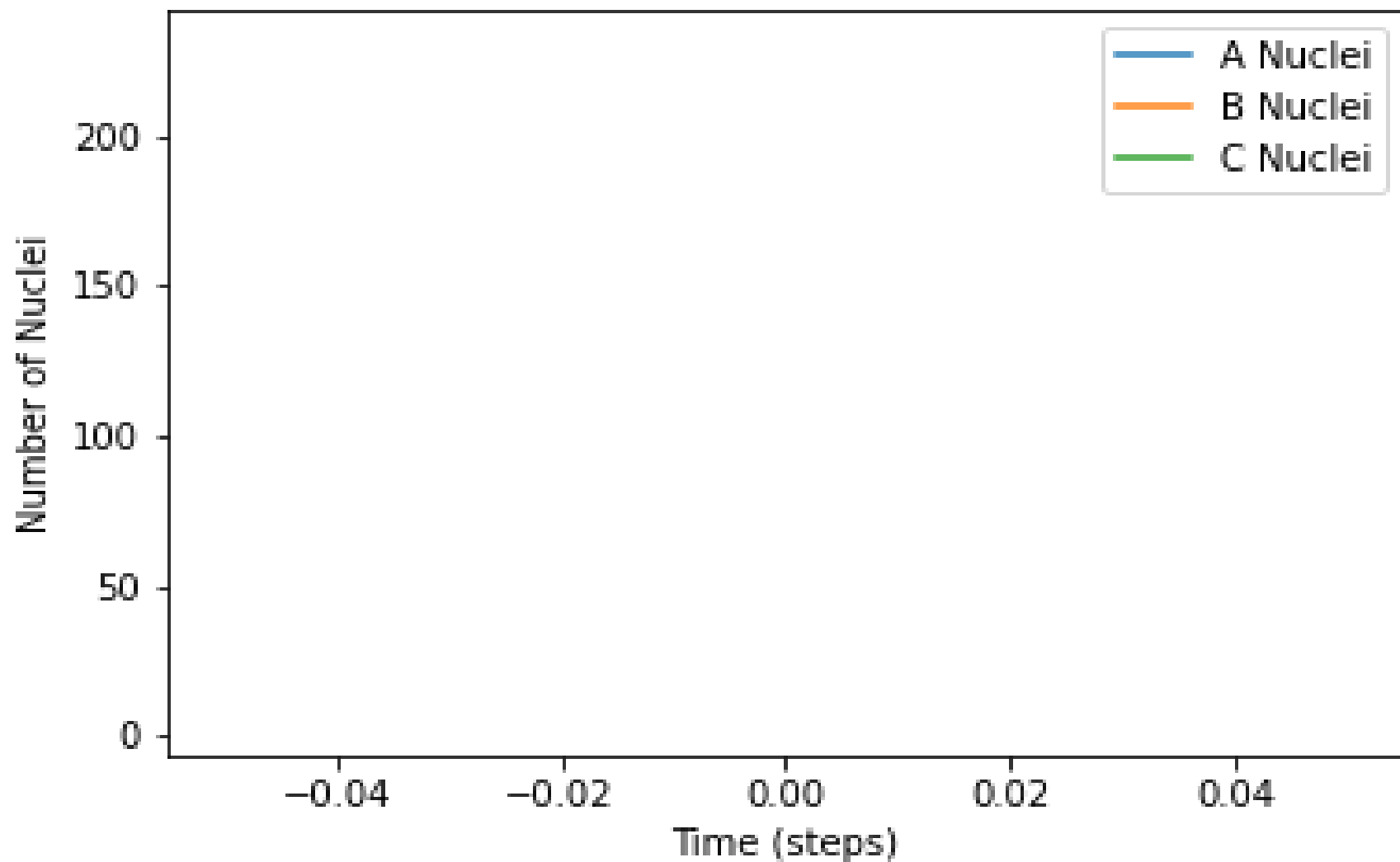
Projectile Motion Trajectories



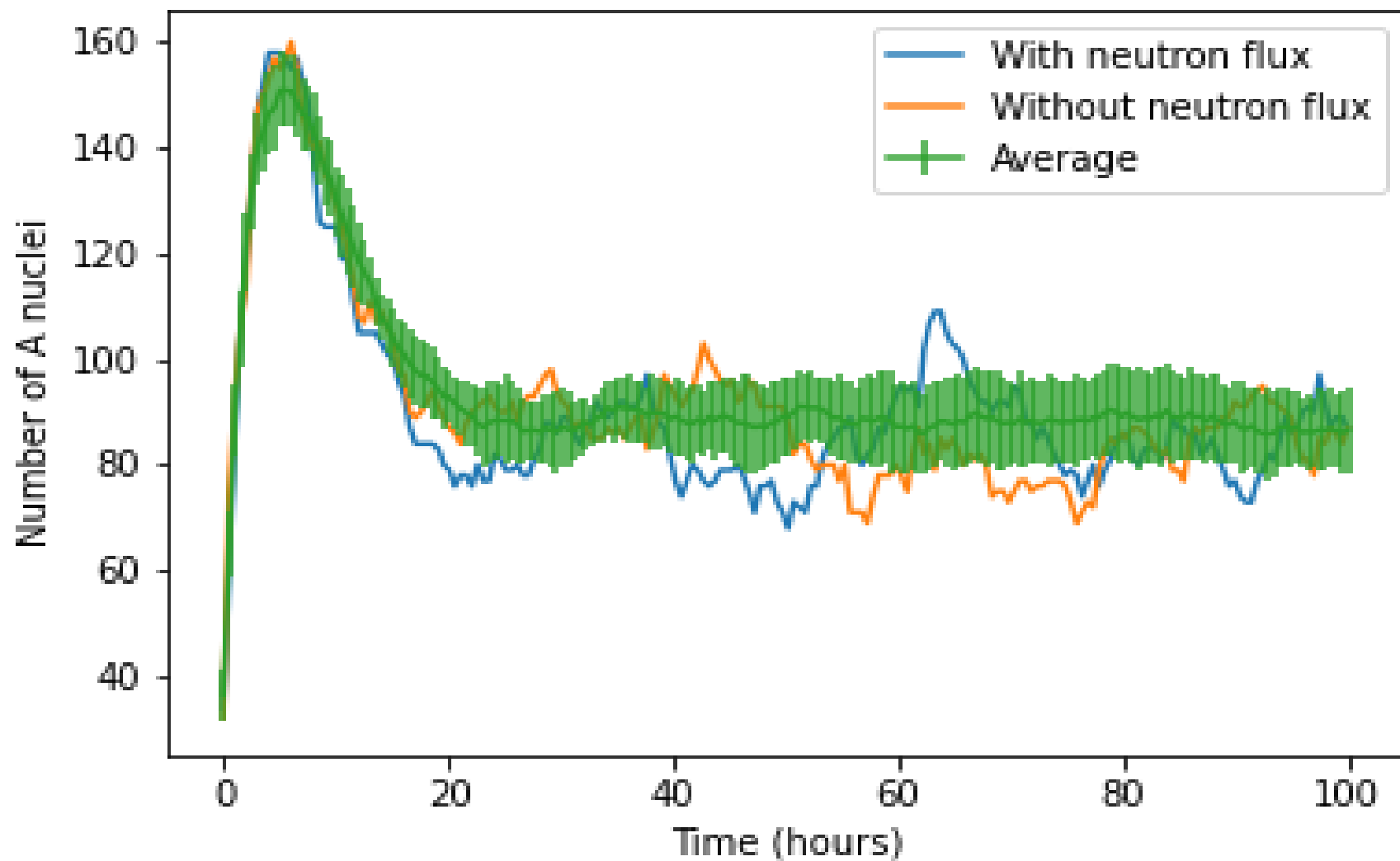
Range of a Projectile for Different Initial Velocities



Nuclei Evolution

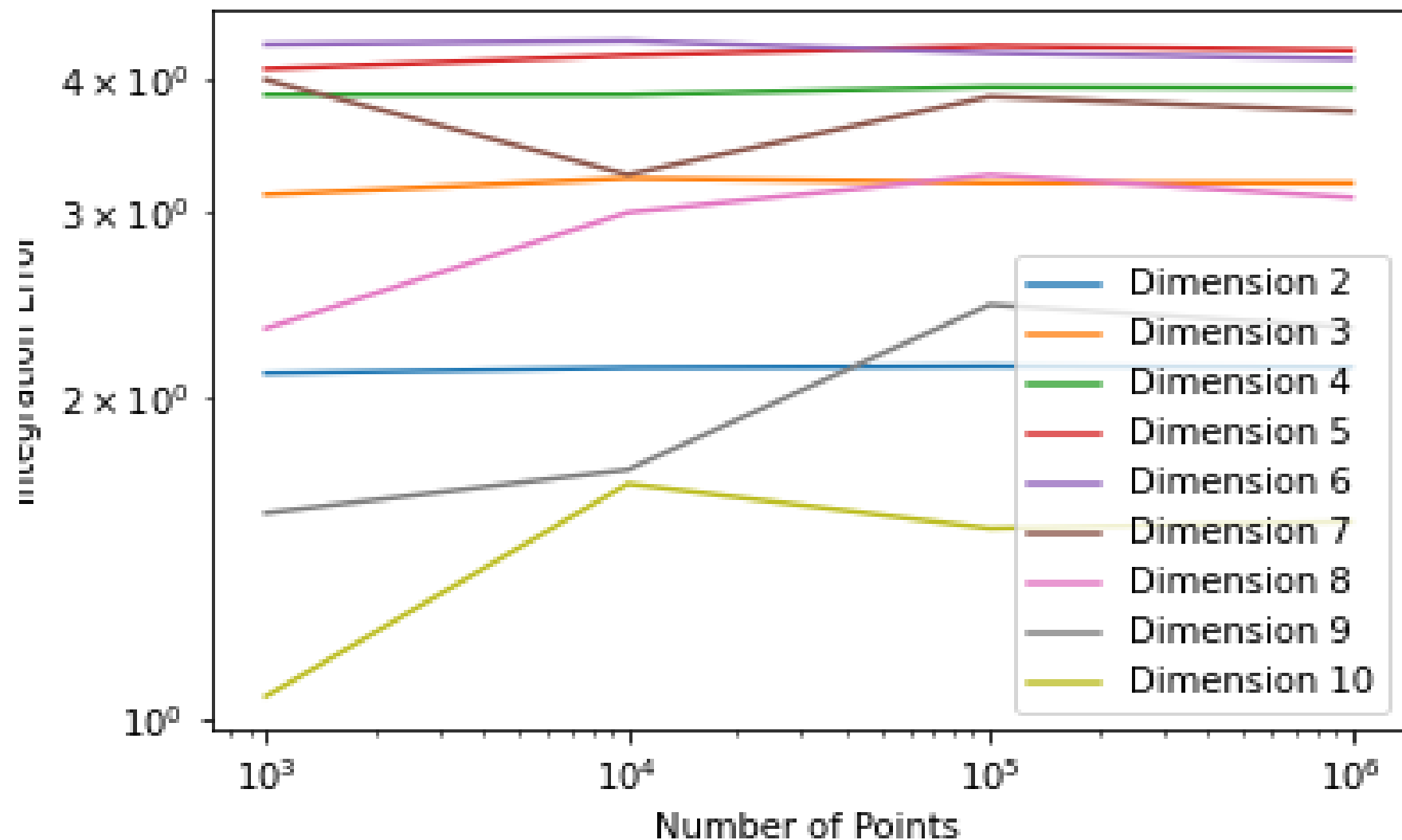


Average Number of A nuclei as a function of time

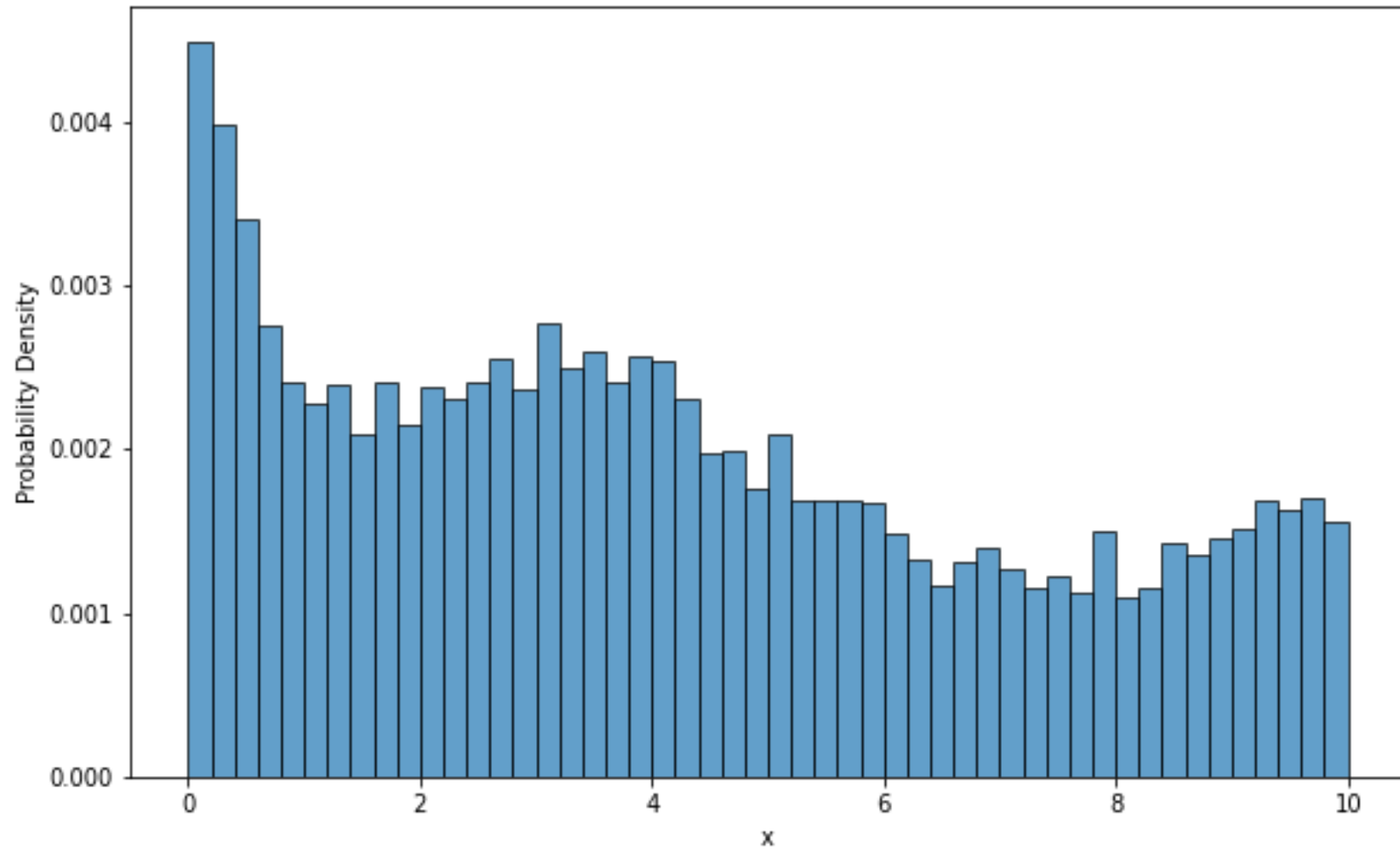




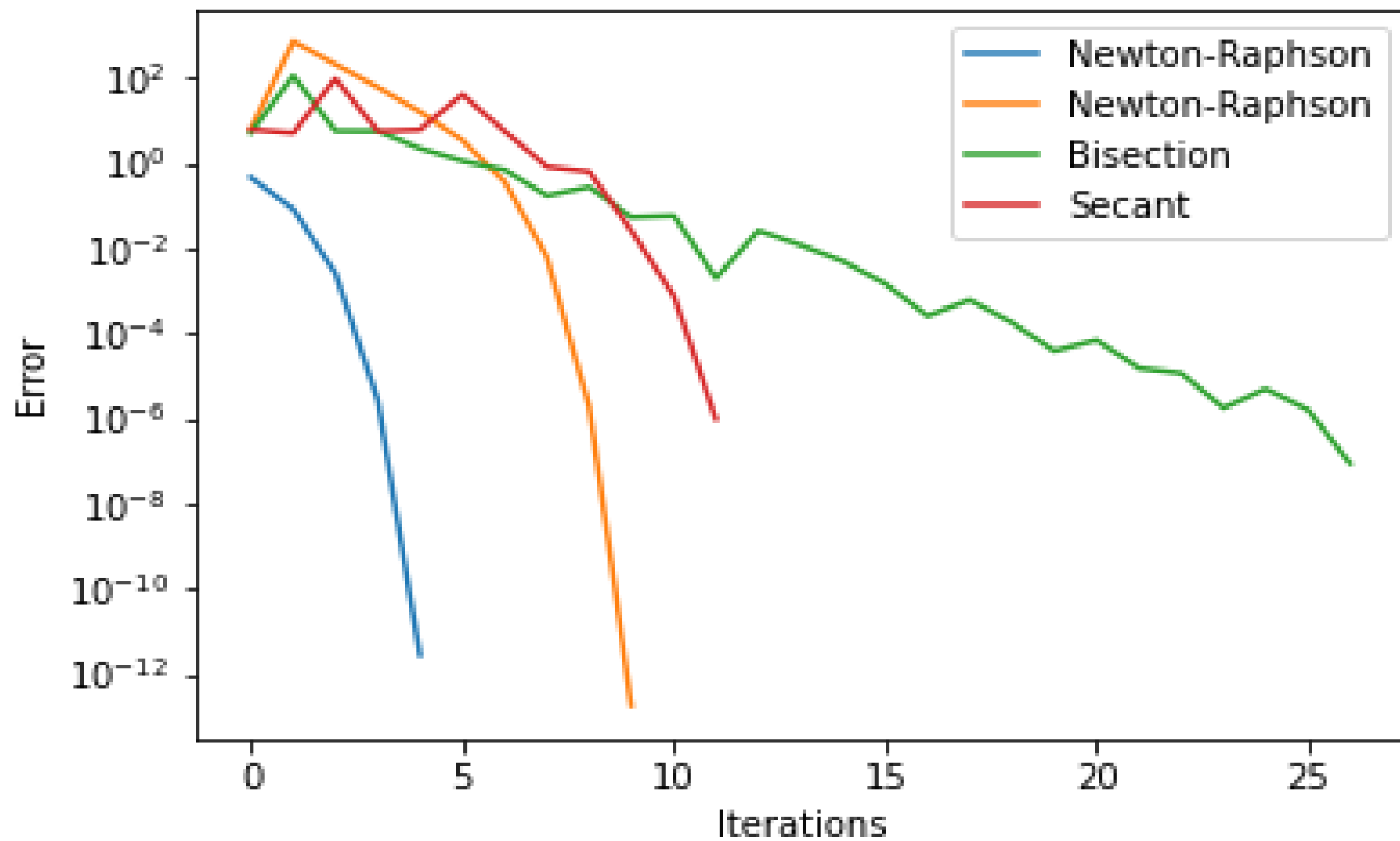
Monte Carlo Integration Error Scaling



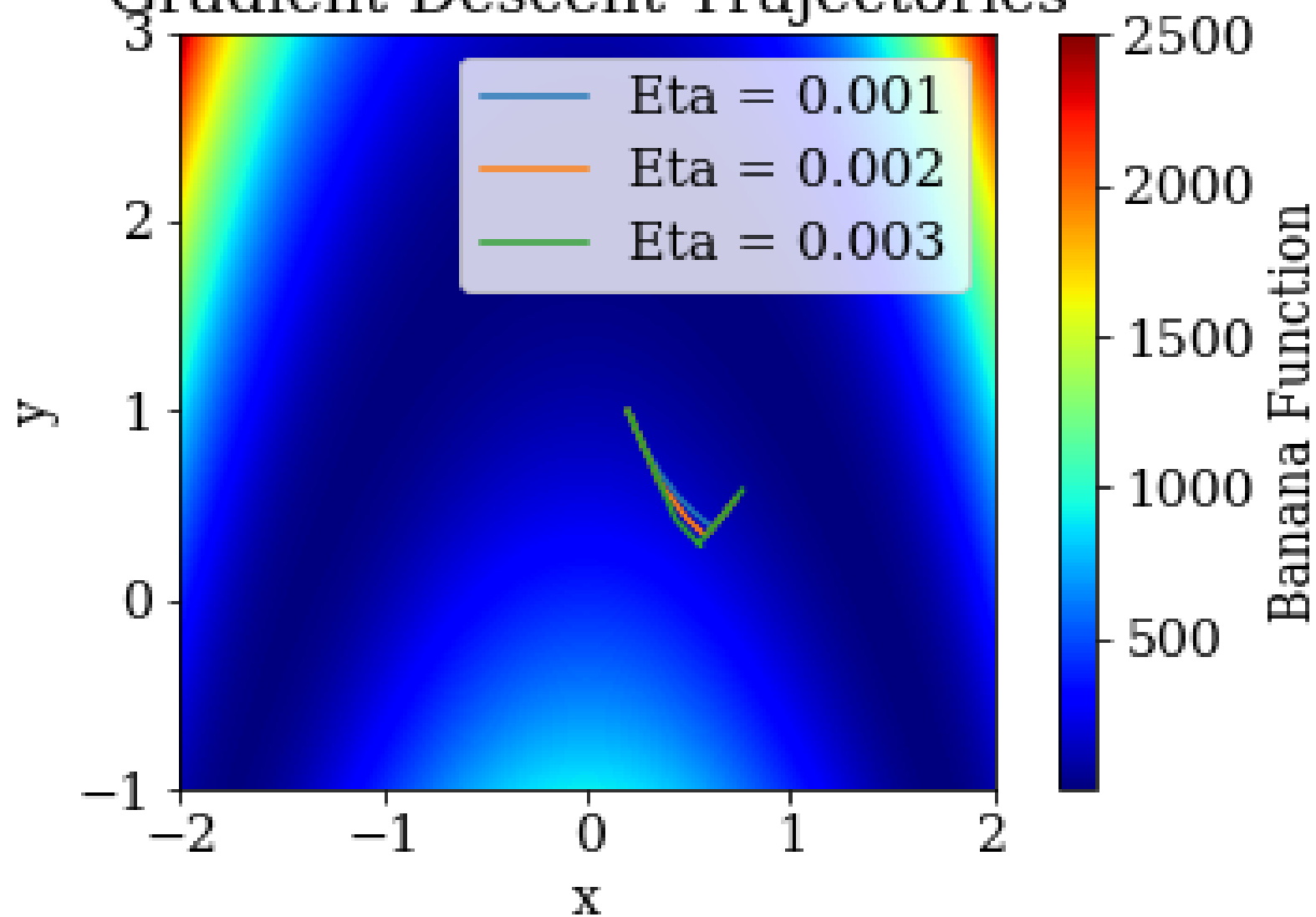
Distribution of Values Generated by genSample



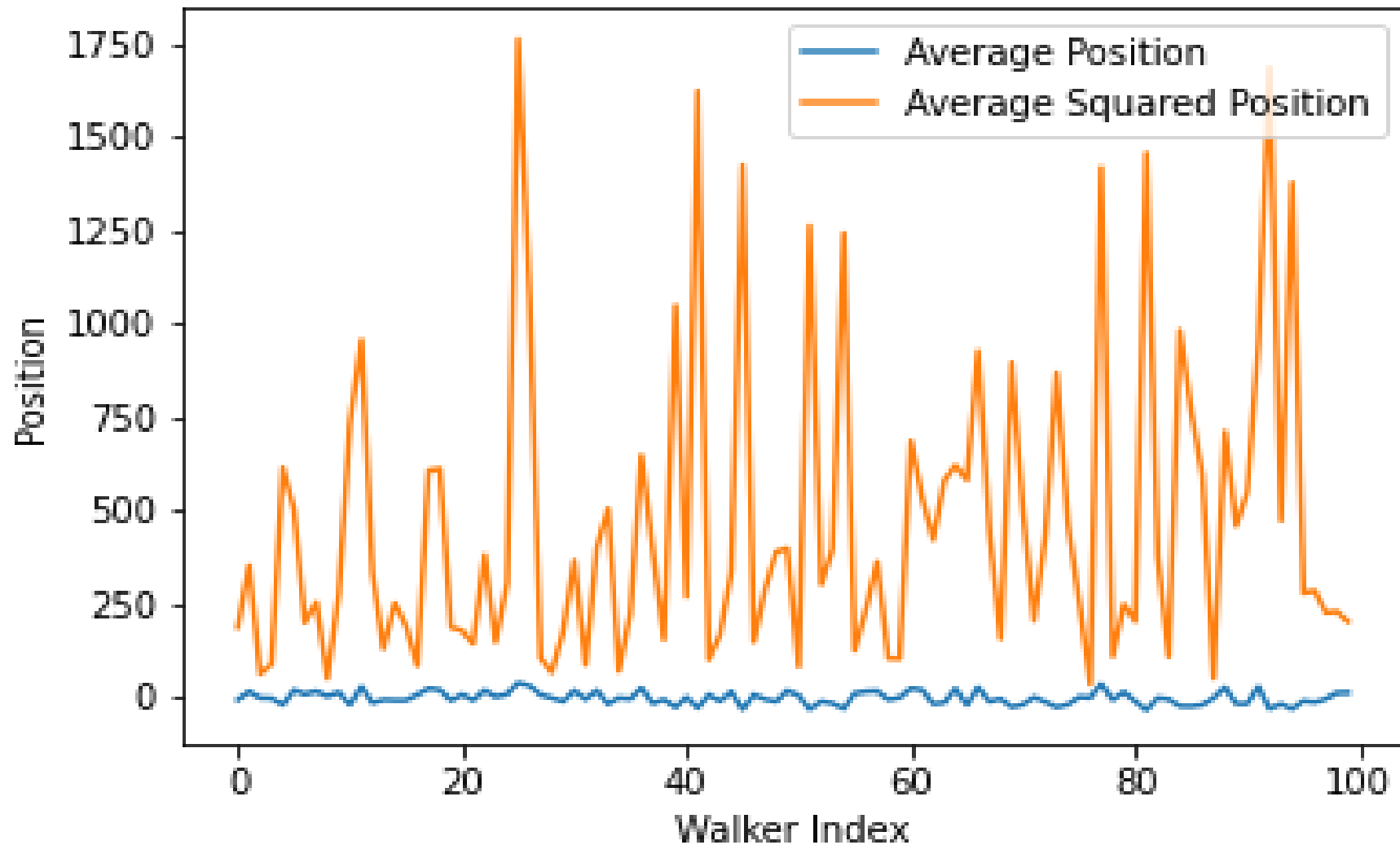
Convergence of Root-Finding Methods

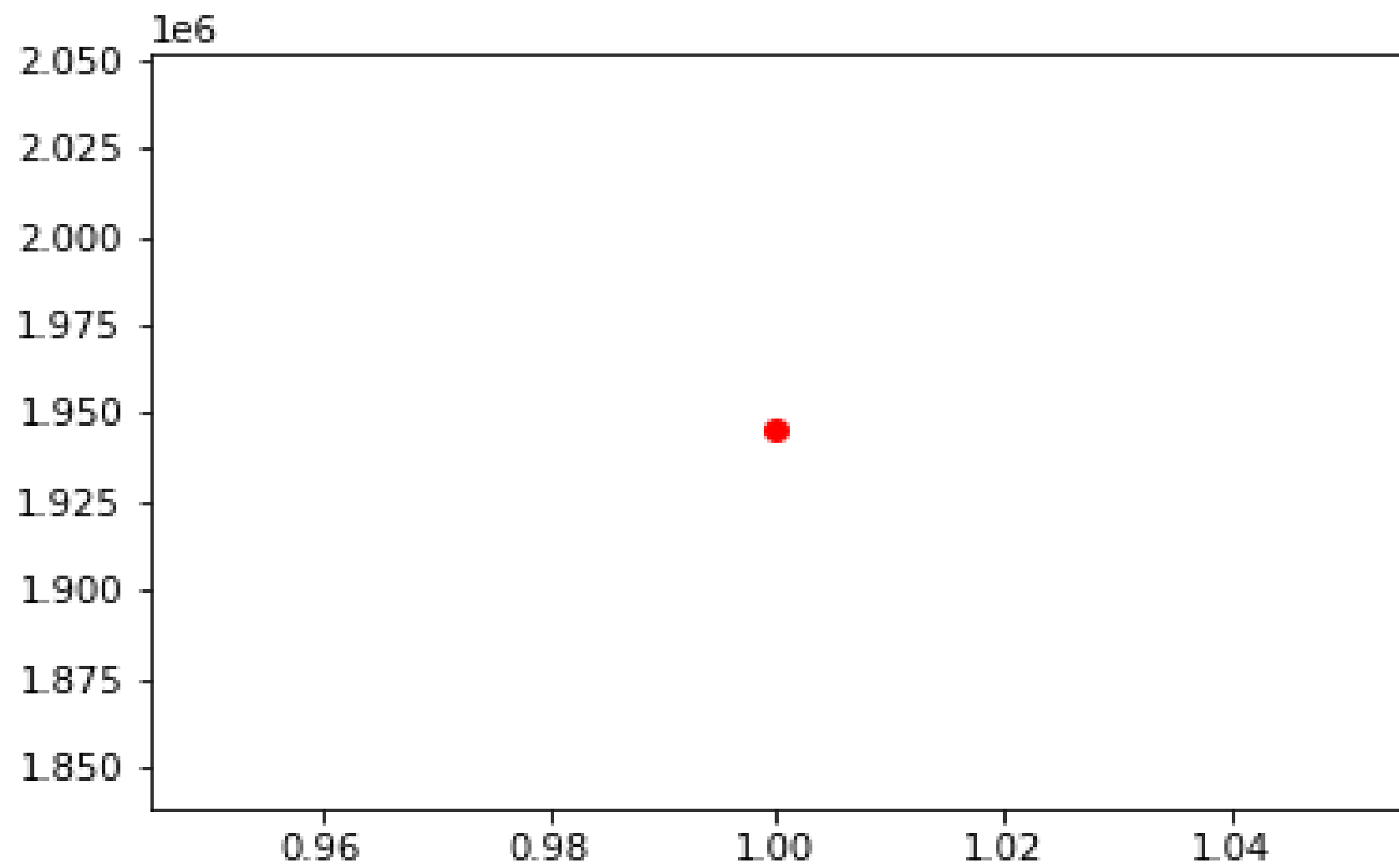


## Gradient Descent Trajectories

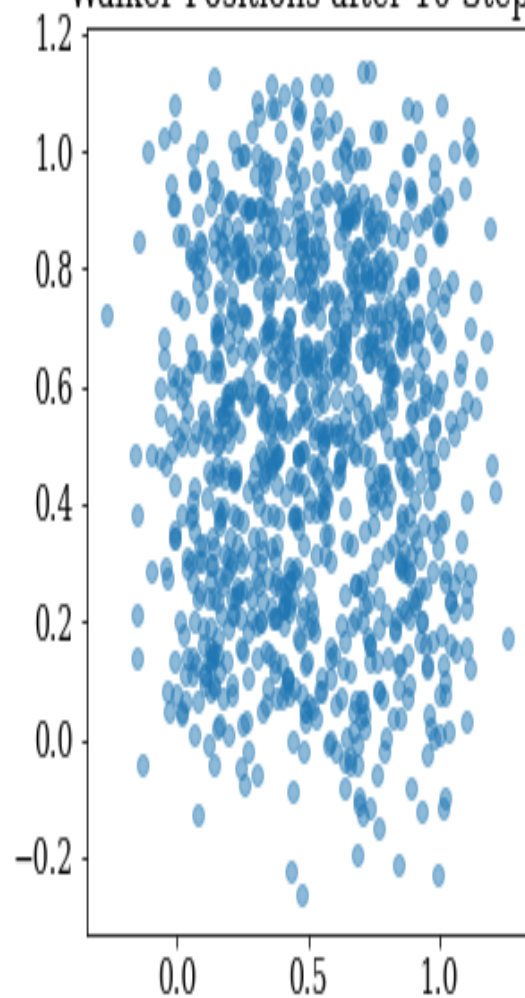


1D Random Walk - Average Position and Average Squared Position

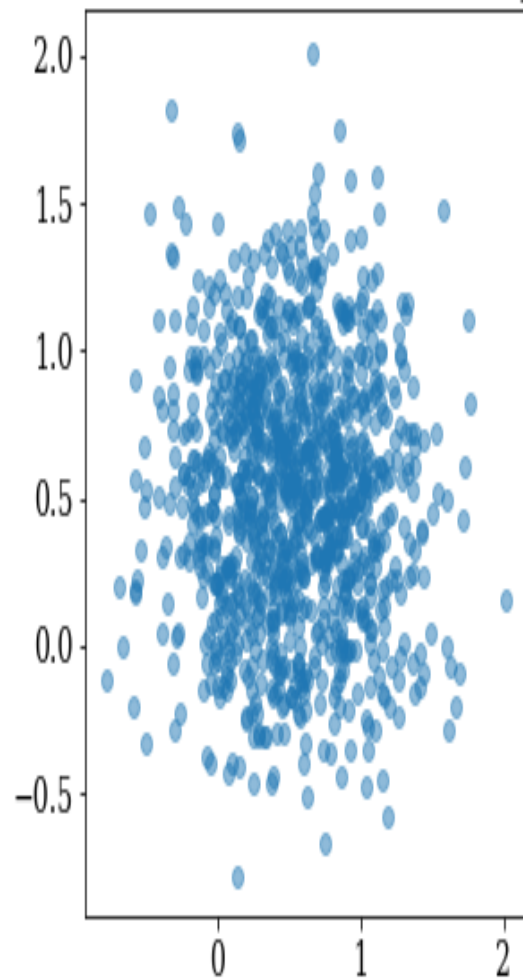




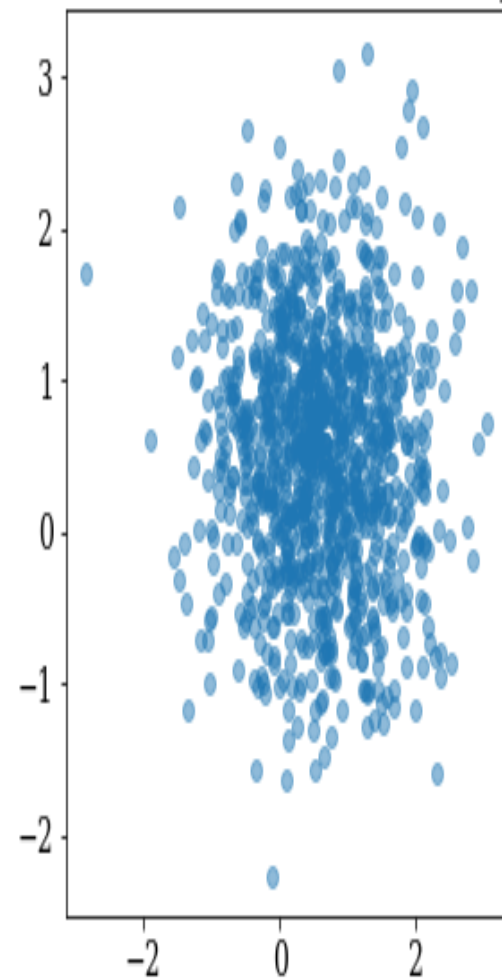
Walker Positions after 10 Steps



Walker Positions after 100 Steps



Walker Positions after 500 Steps



AI?