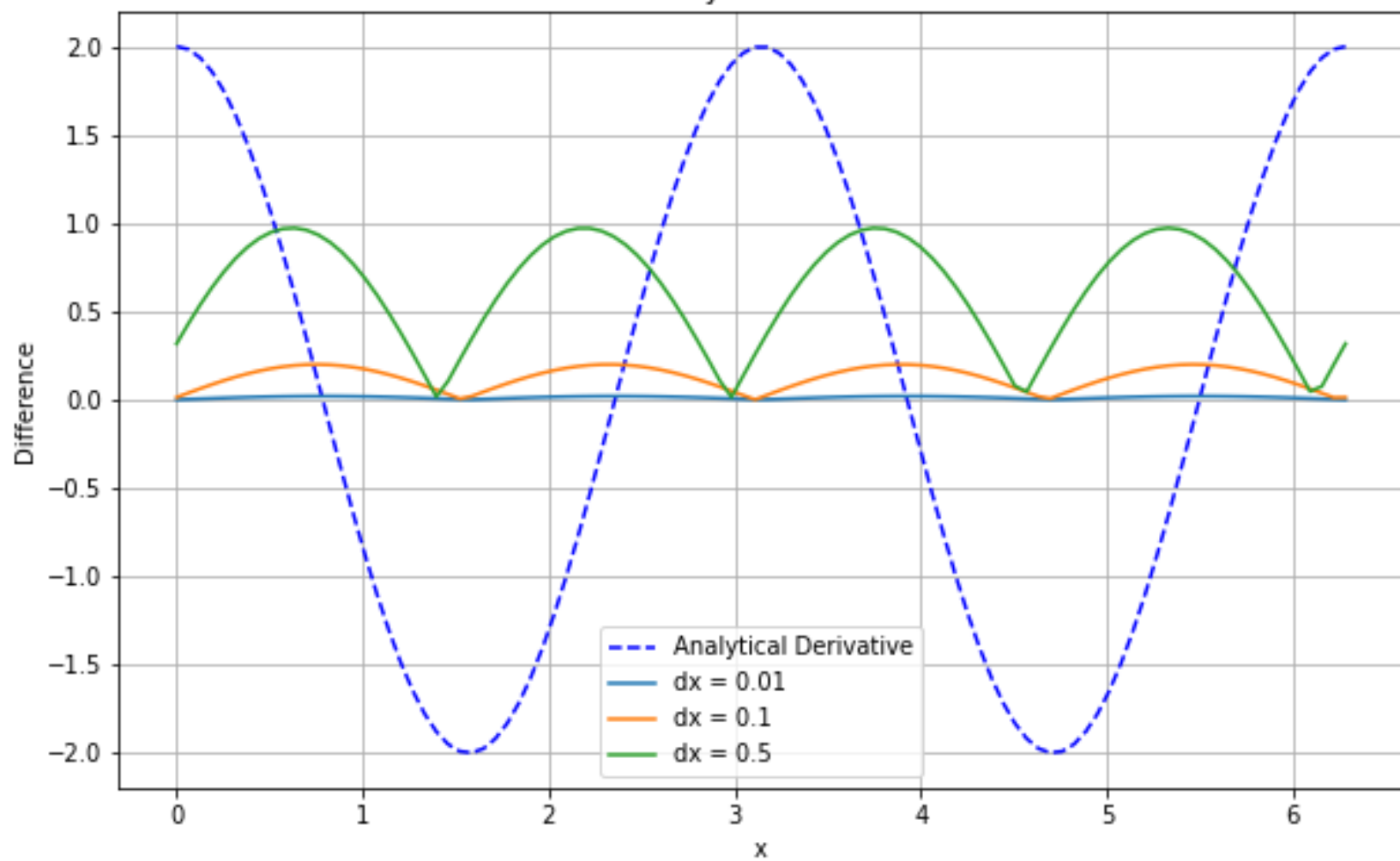
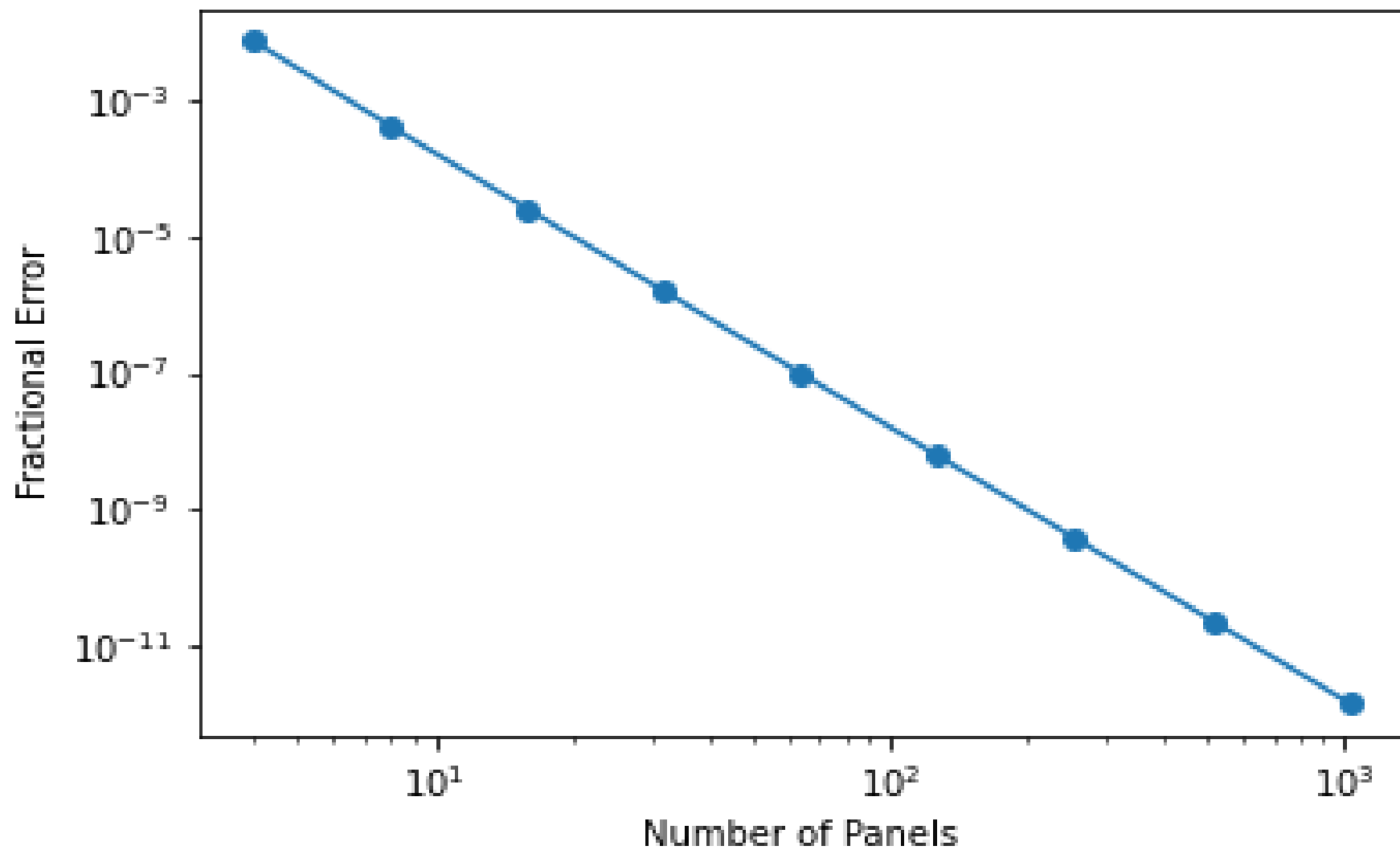


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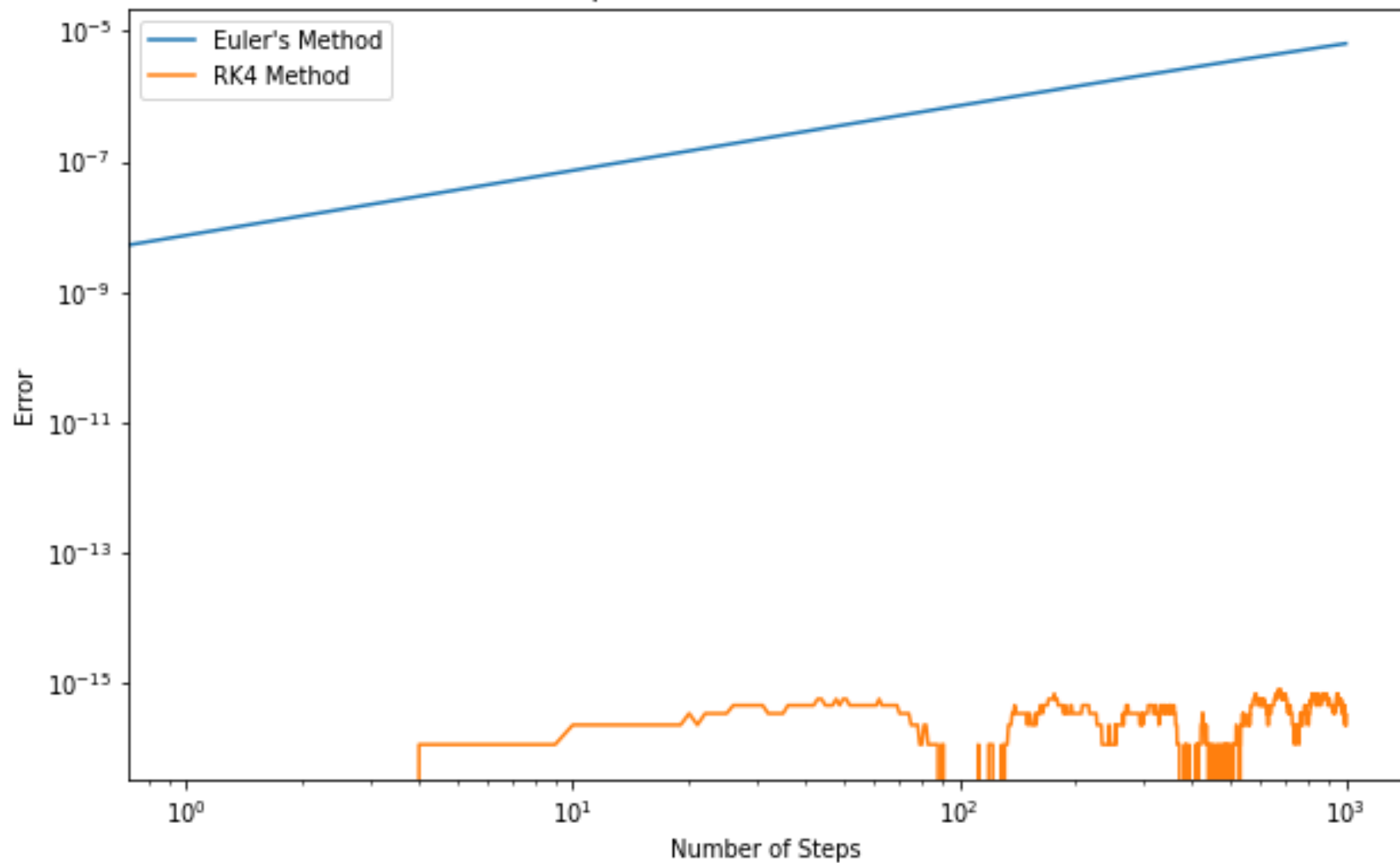
Difference between Analytical and Numerical Derivatives



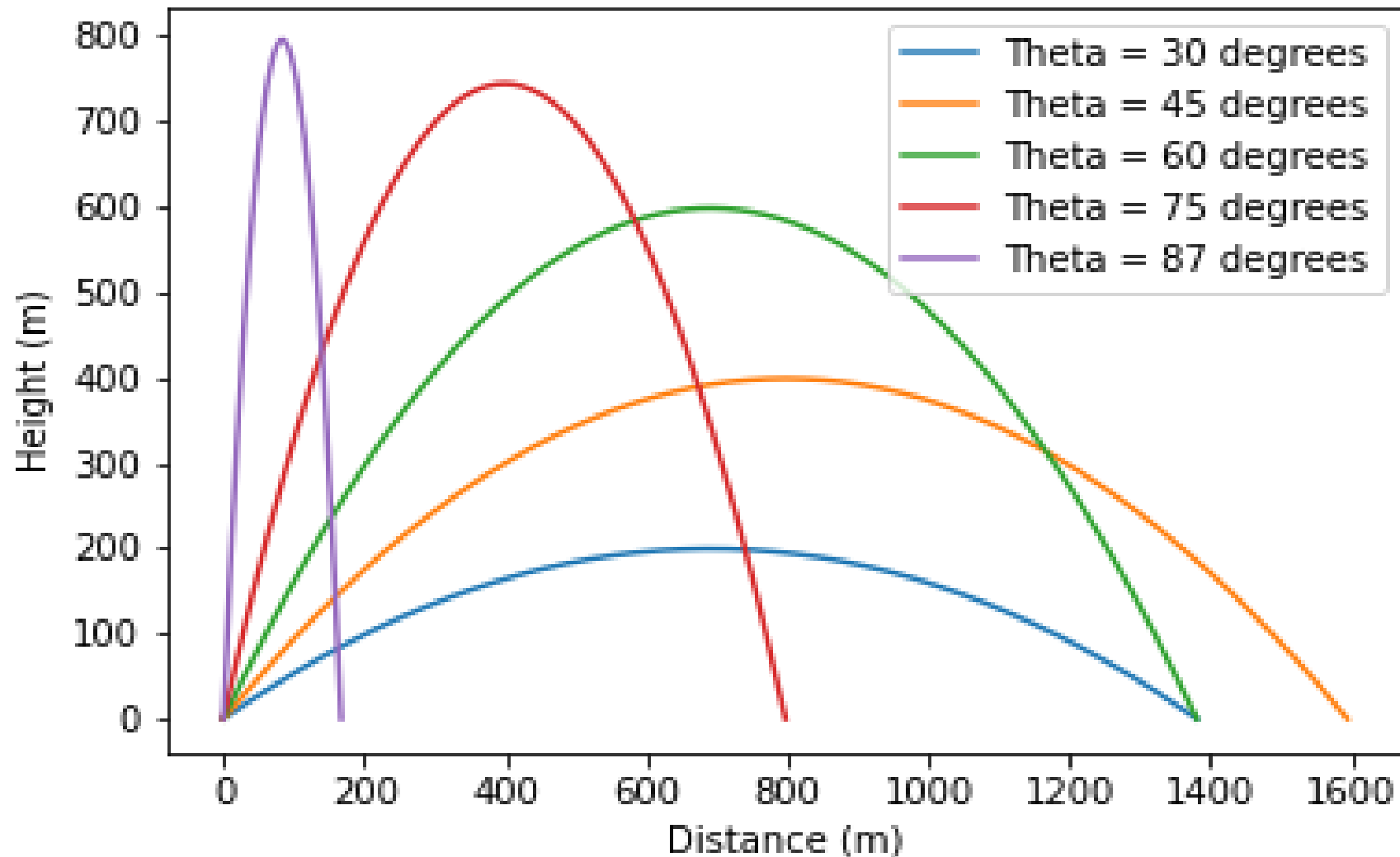
Fractional Error in Numerical Integration using Simpson's Rule



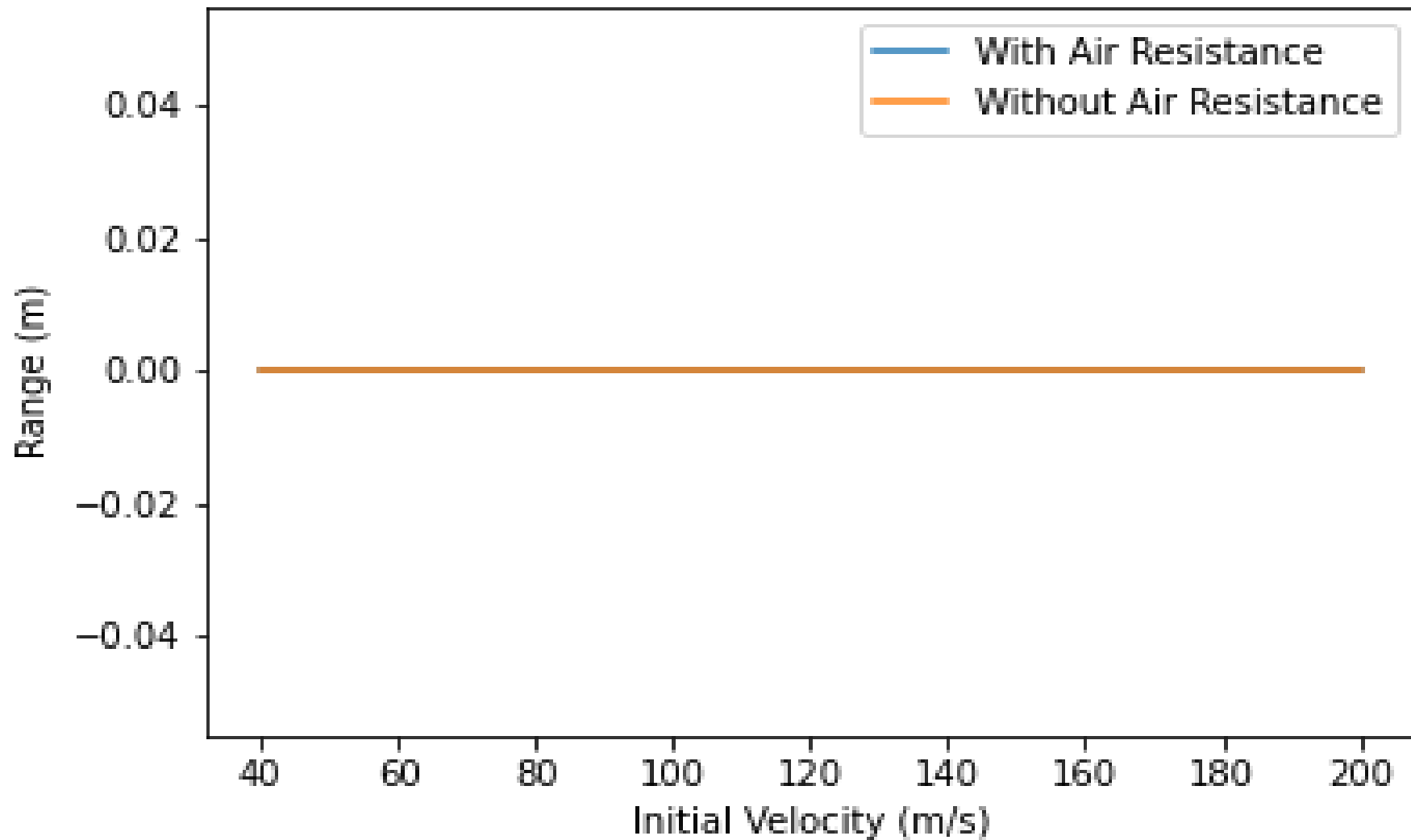
Error Comparison in Euler's and RK4 Methods

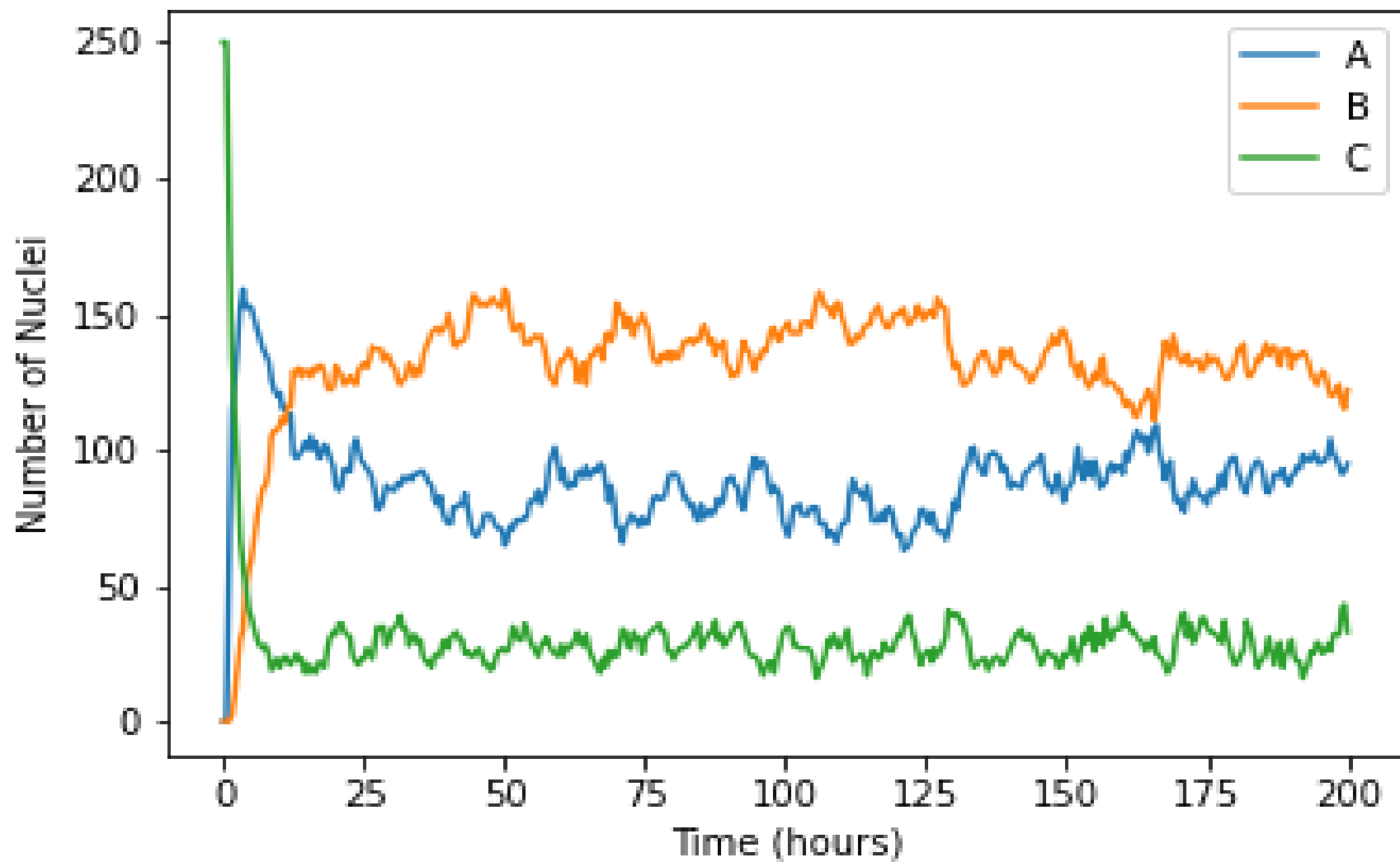


Trajectories of Cannonball for Different Initial Angles

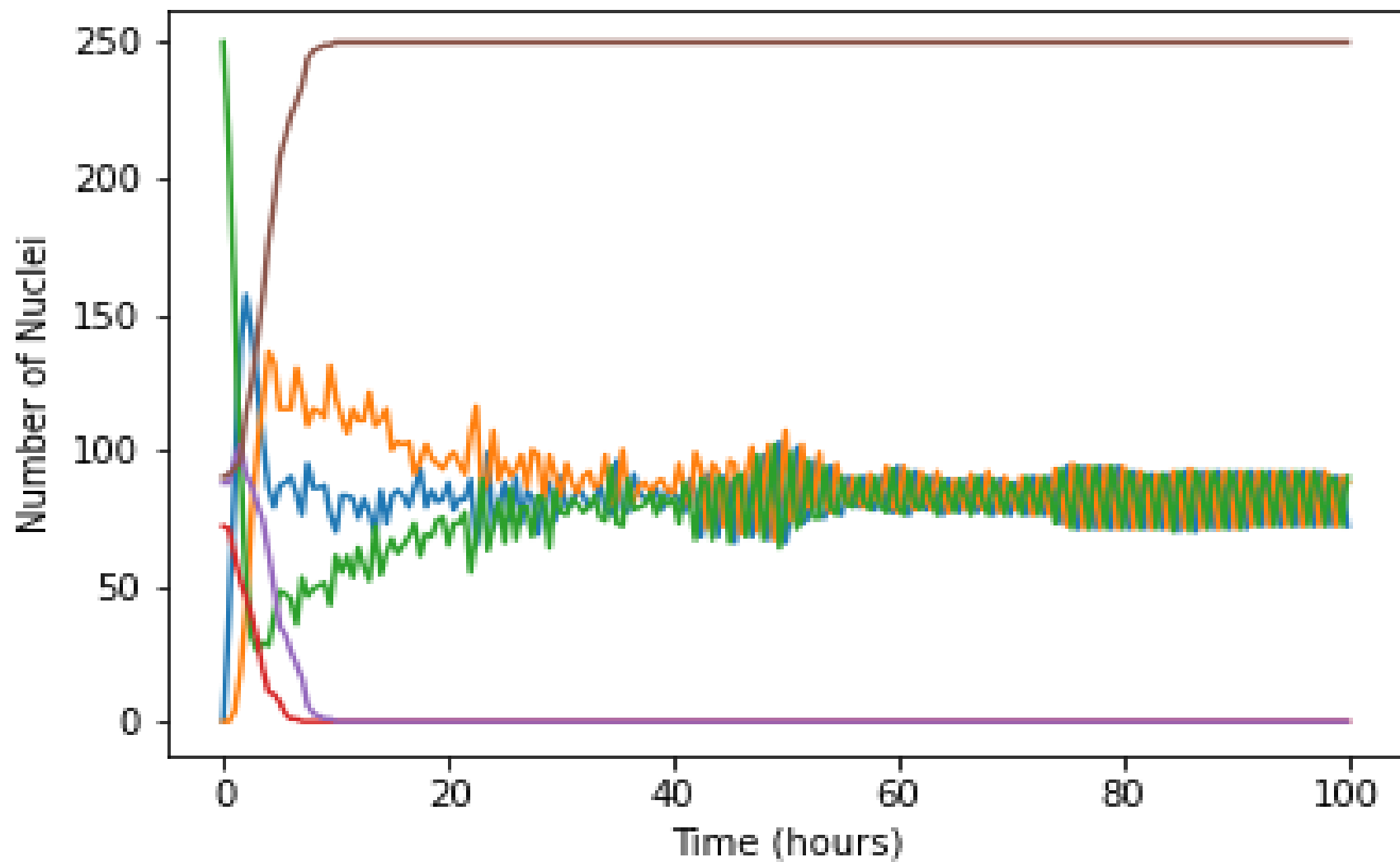


Effect of Initial Velocity on Projectile Range



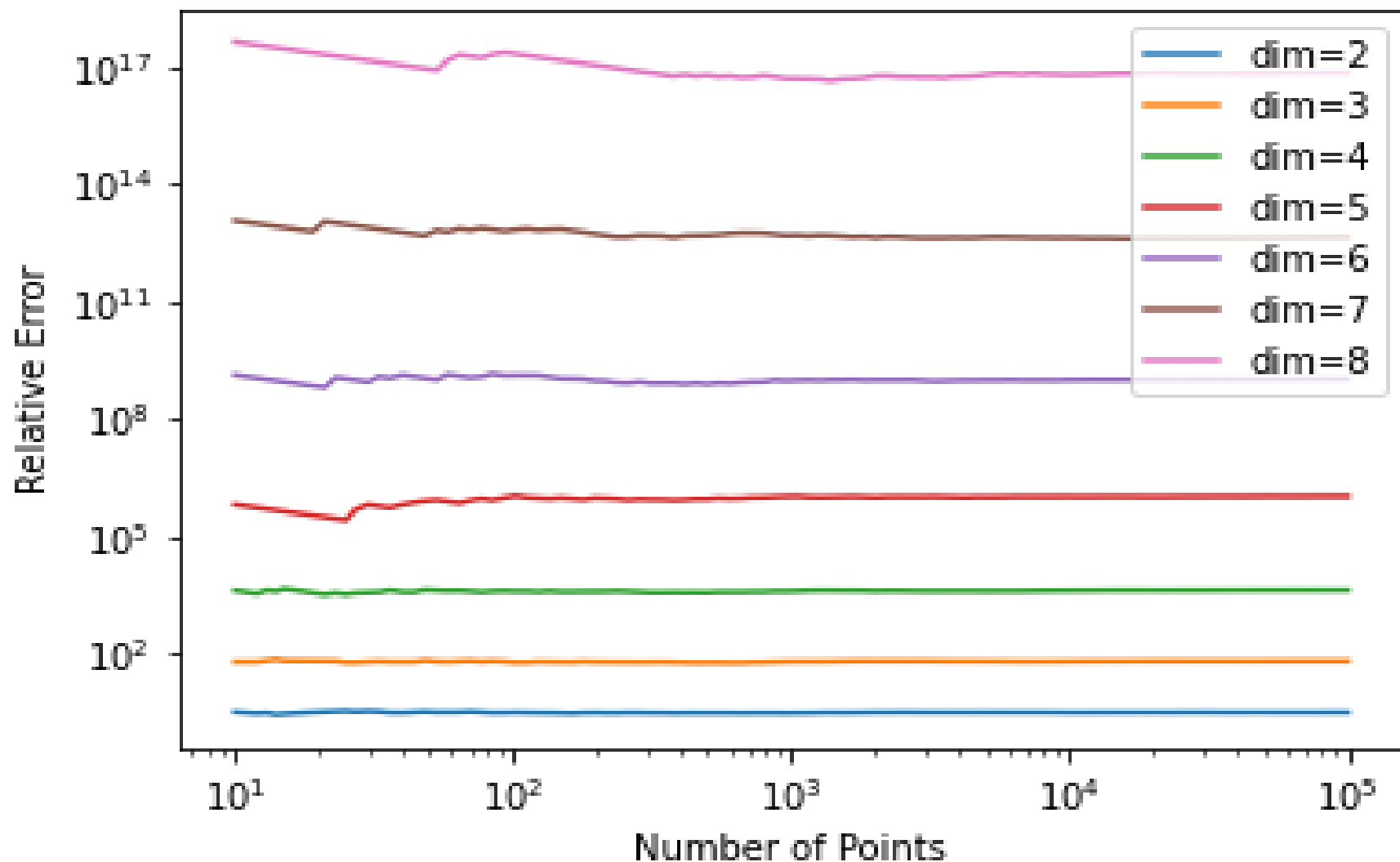


Evolution of Nuclei

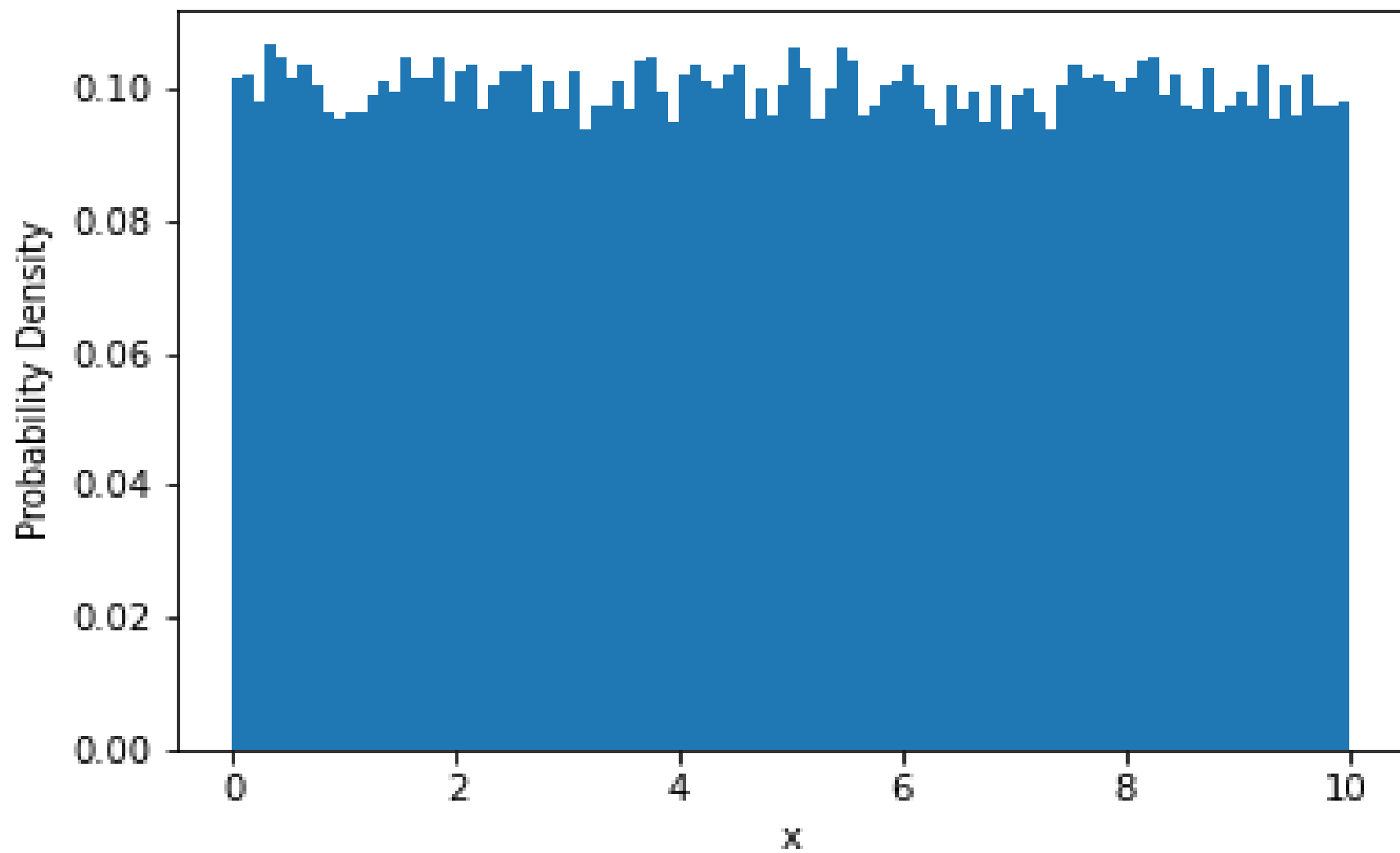




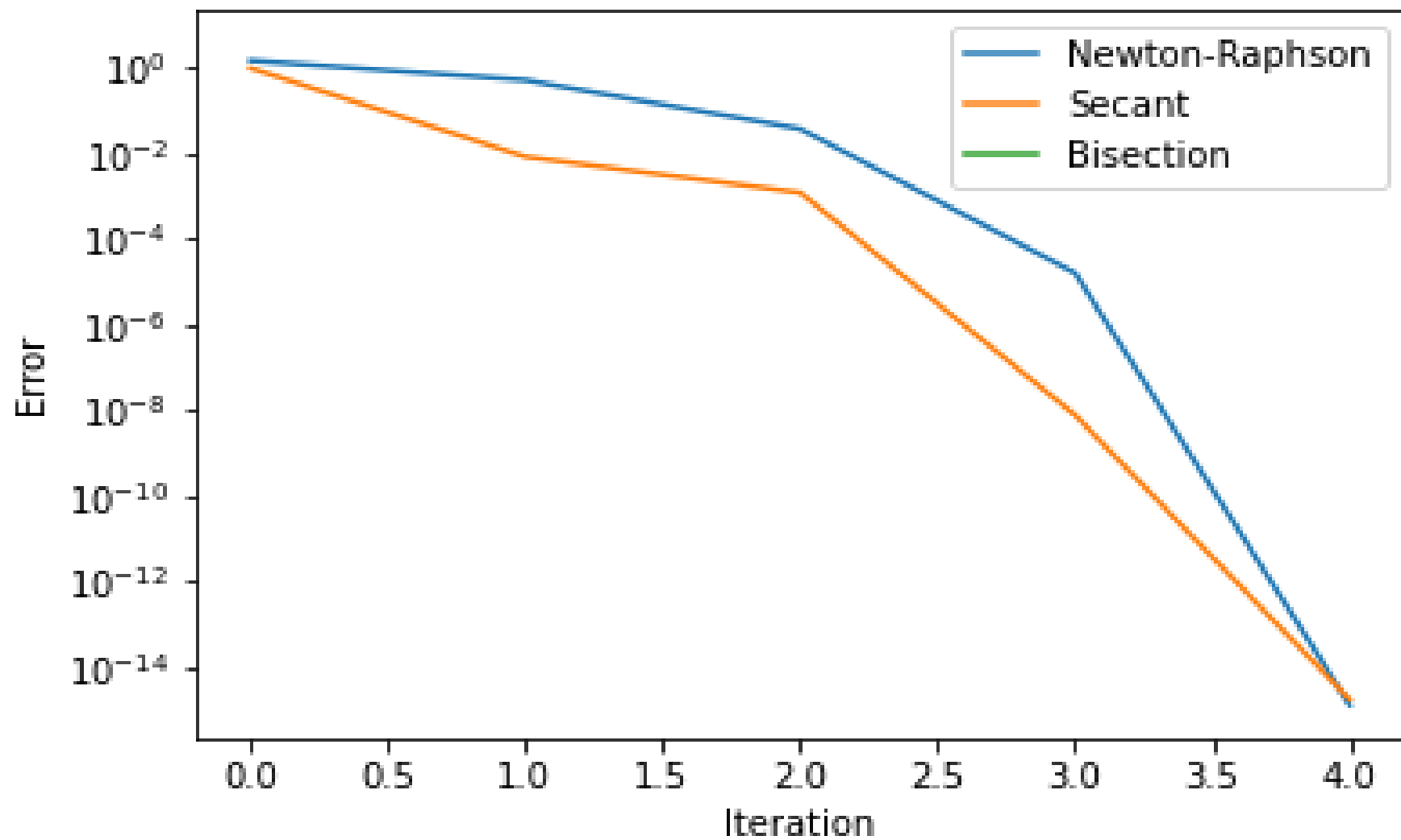
Monte Carlo Integration Error



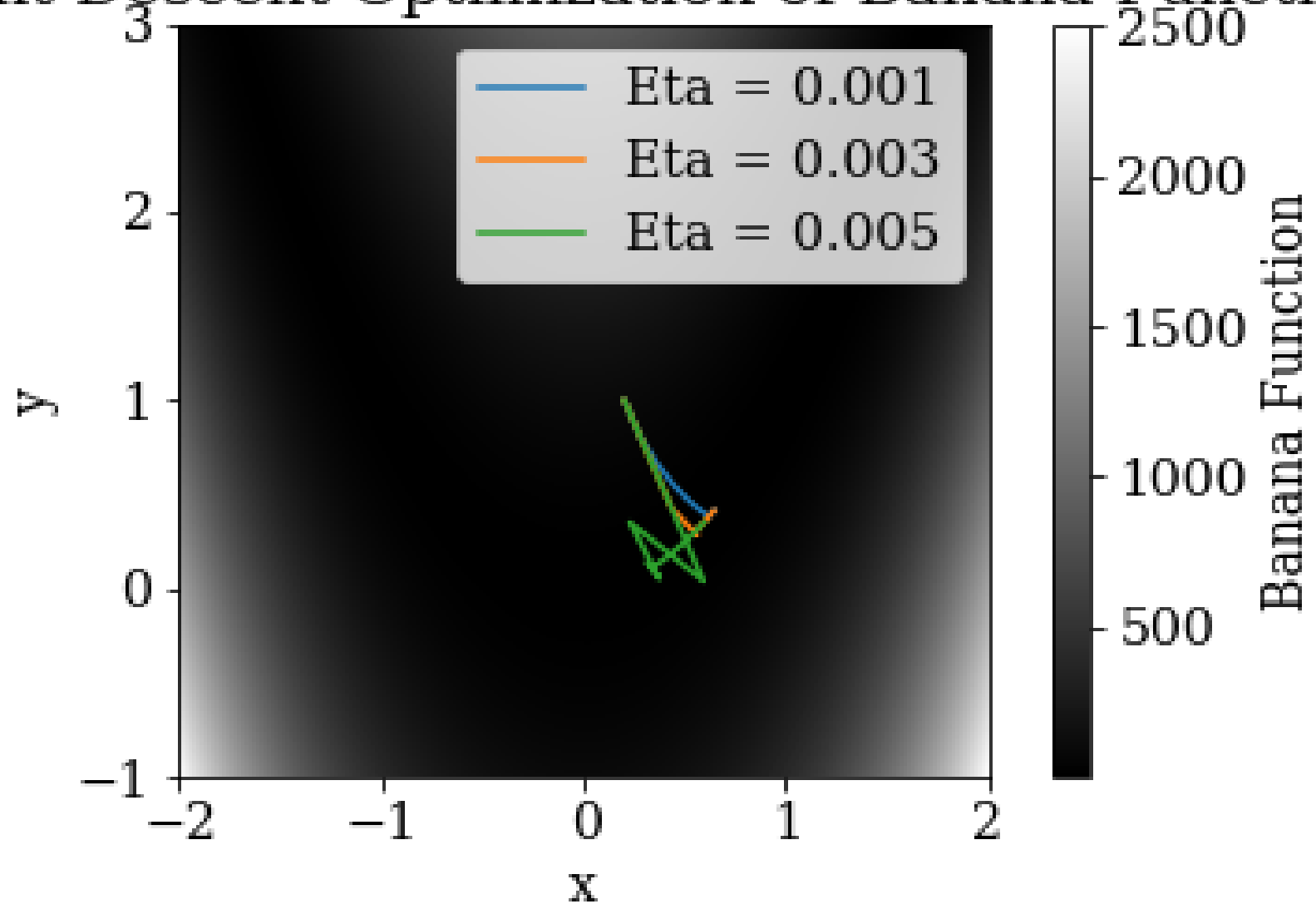
Distribution of Sampled Values



Convergence Comparison of Root-Finding Methods



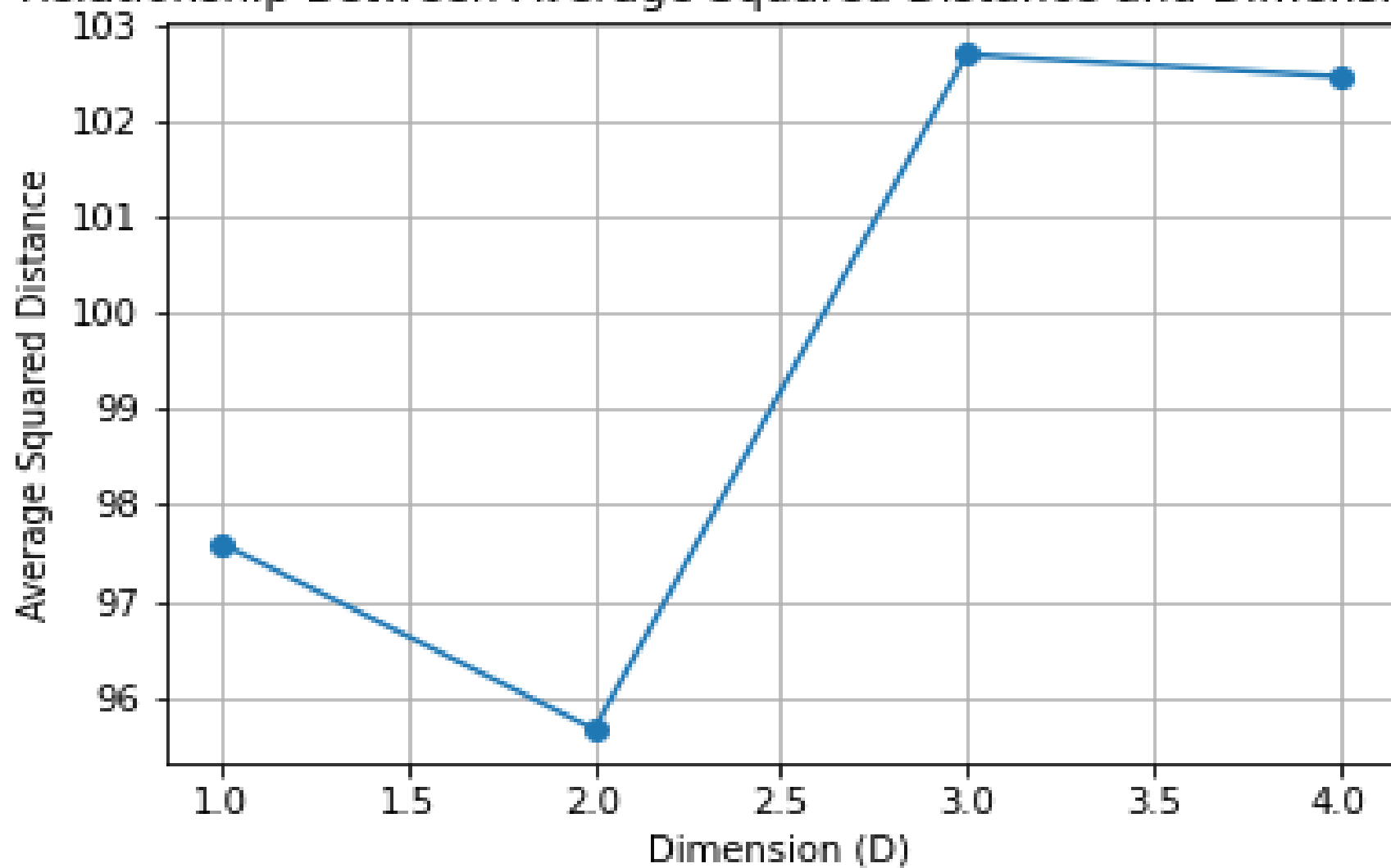
# Gradient Descent Optimization of Banana Function



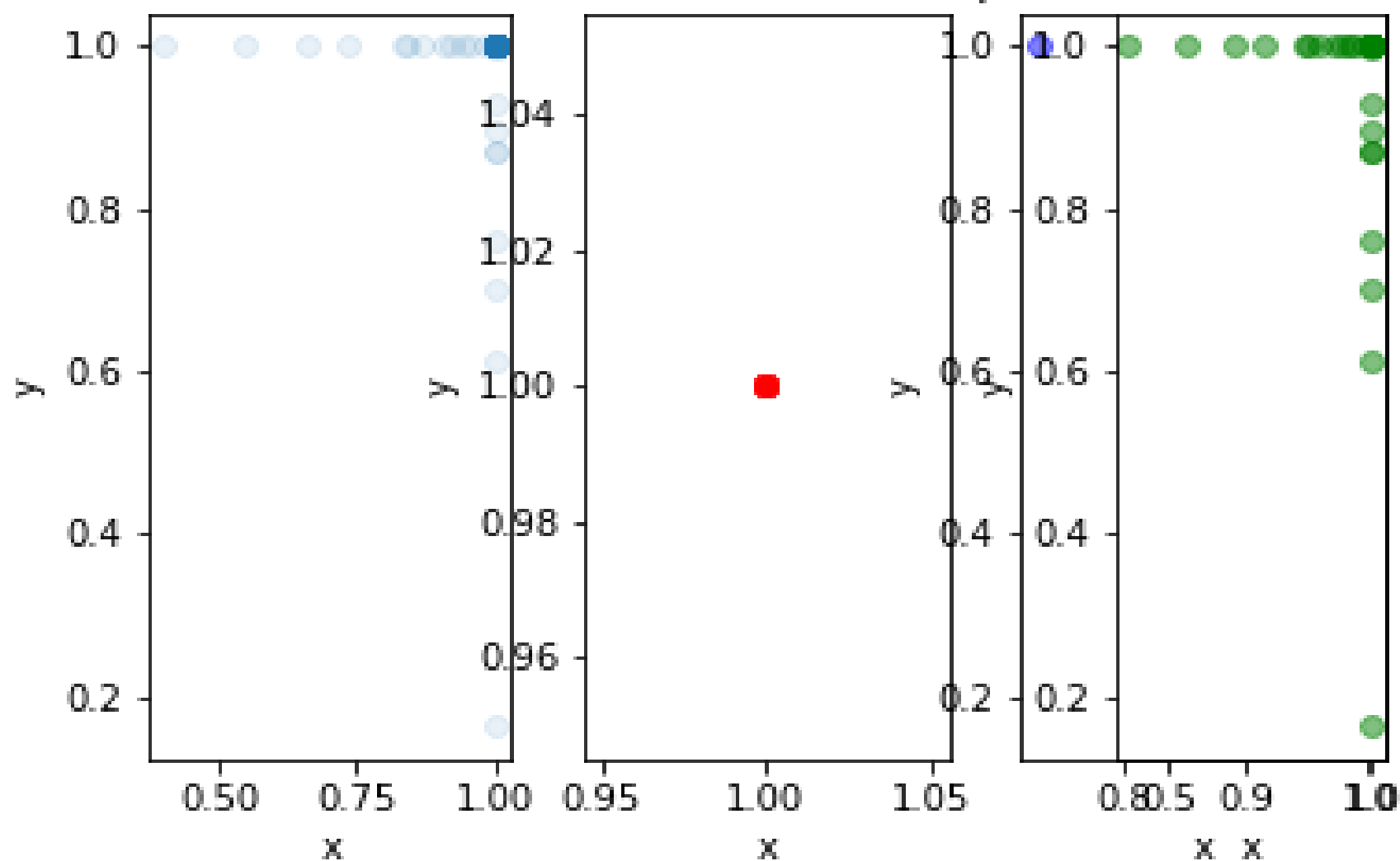
1D Walker: Average Position and Average Squared Position



Relationship Between Average Squared Distance and Dimensionality



Initial Positions Positions after 10 Steps Positions after 100 Steps



AI?