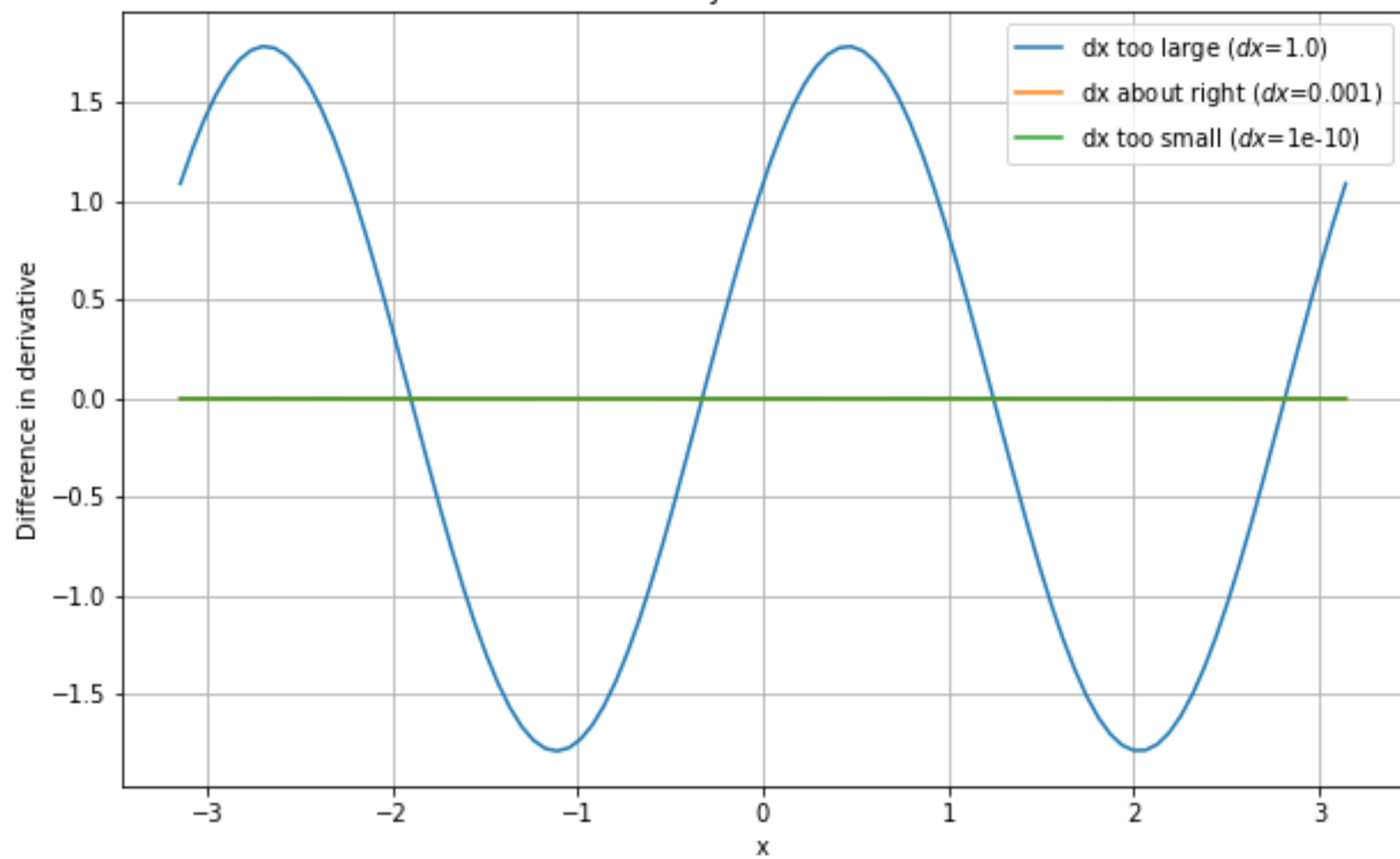
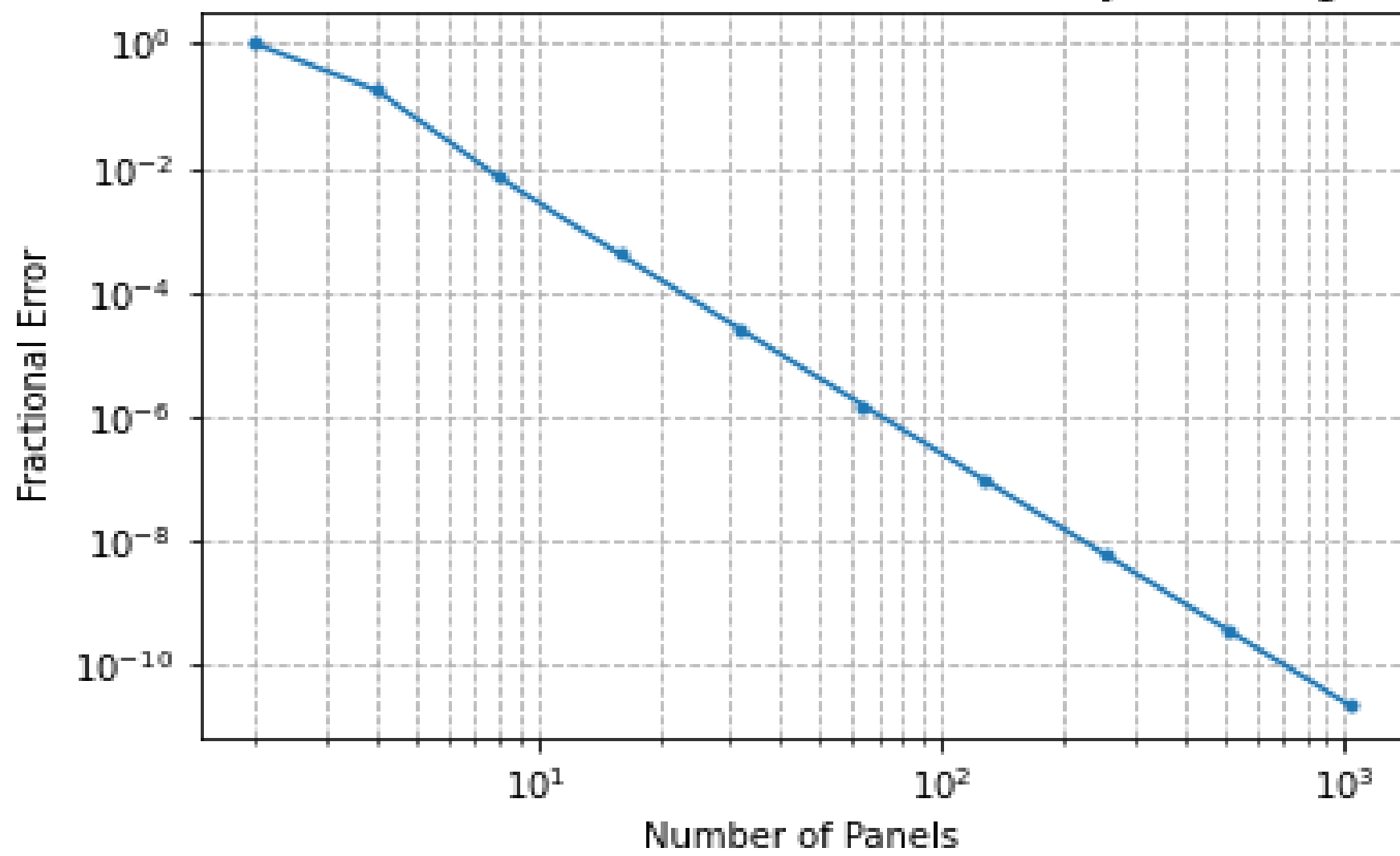


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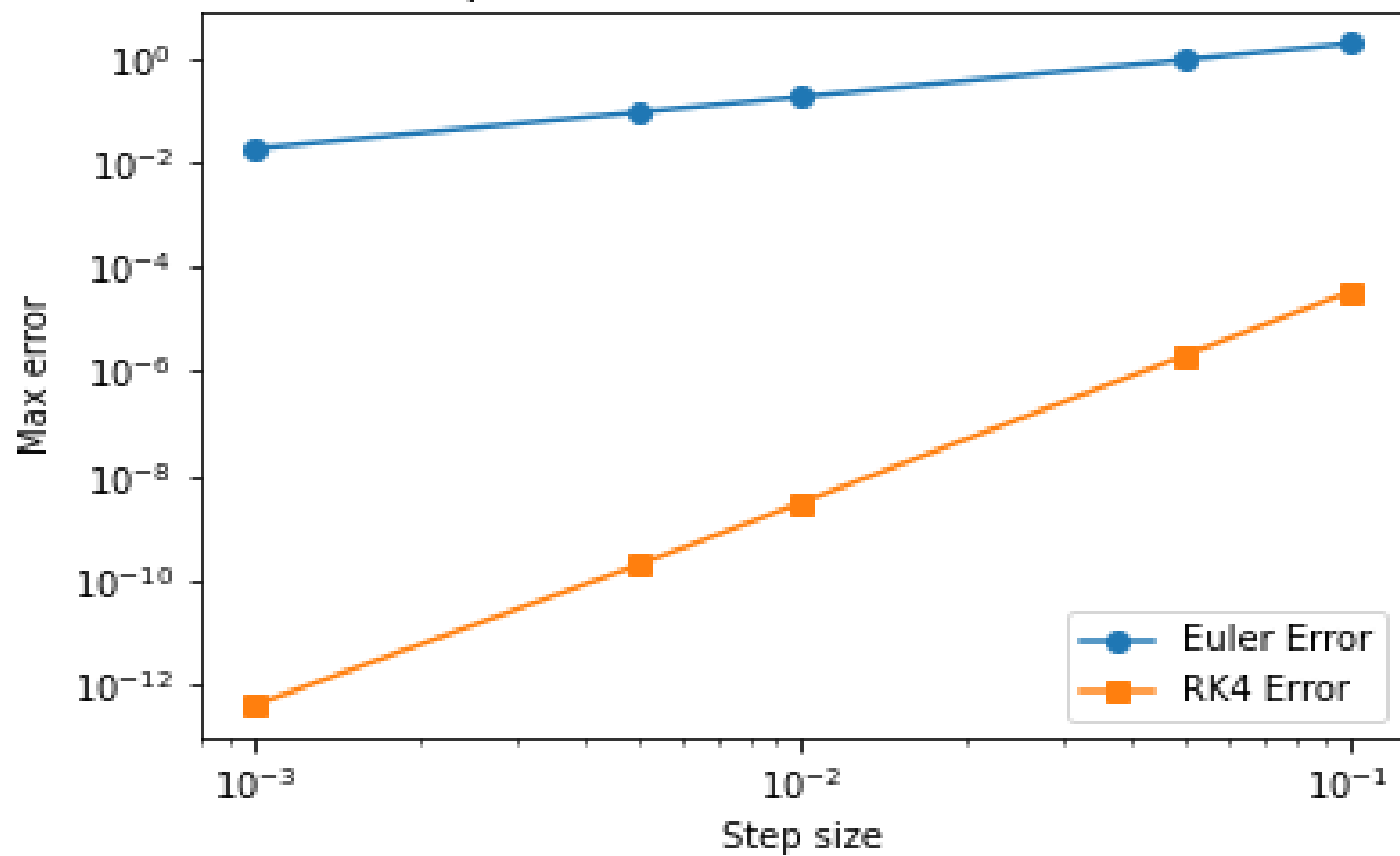
Difference Between Analytical and Numerical Derivatives



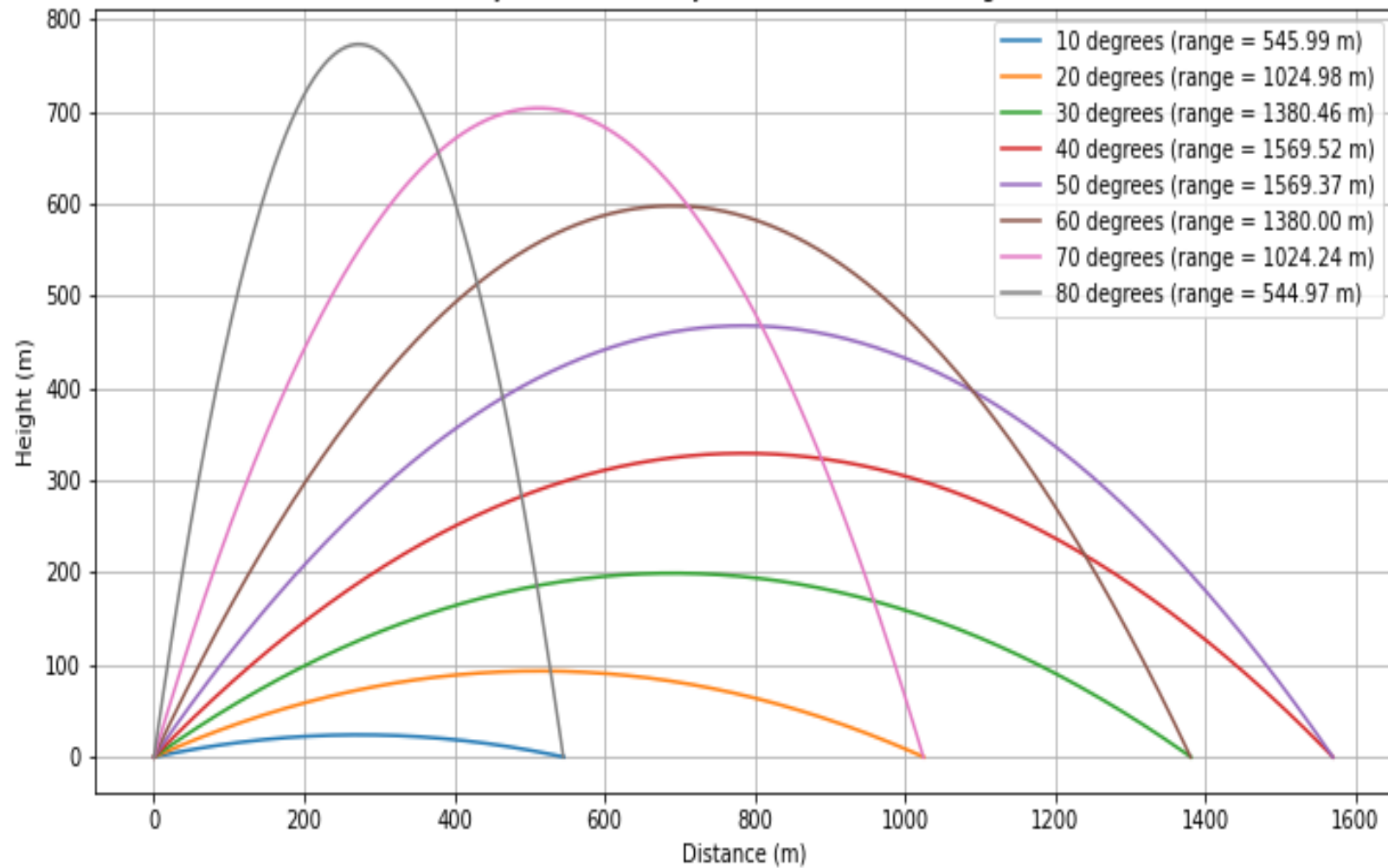
Fractional error between numerical and analytical integration



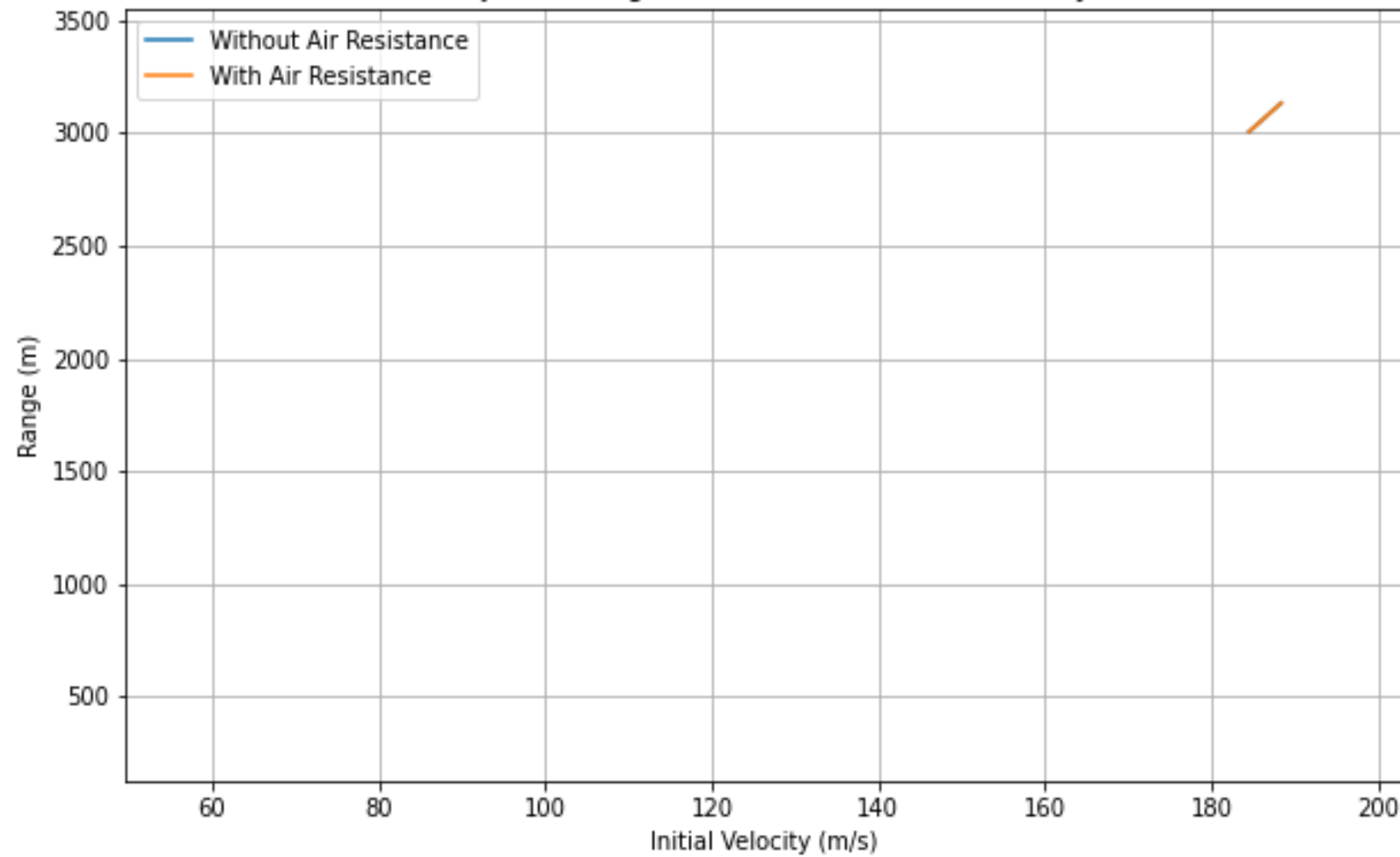
Error comparison between Euler and RK4 methods



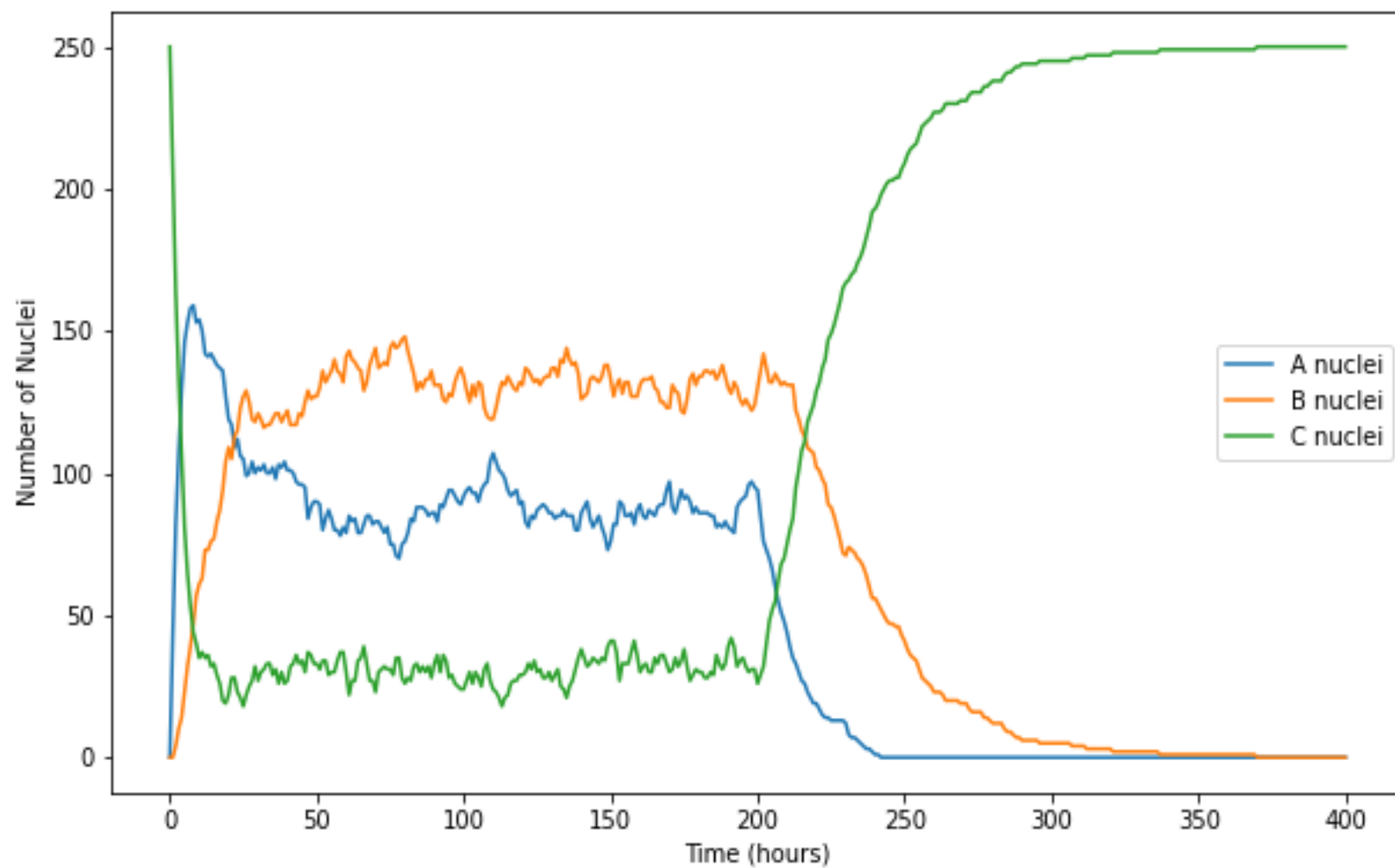
Projectile Motion Trajectories for Different Angles



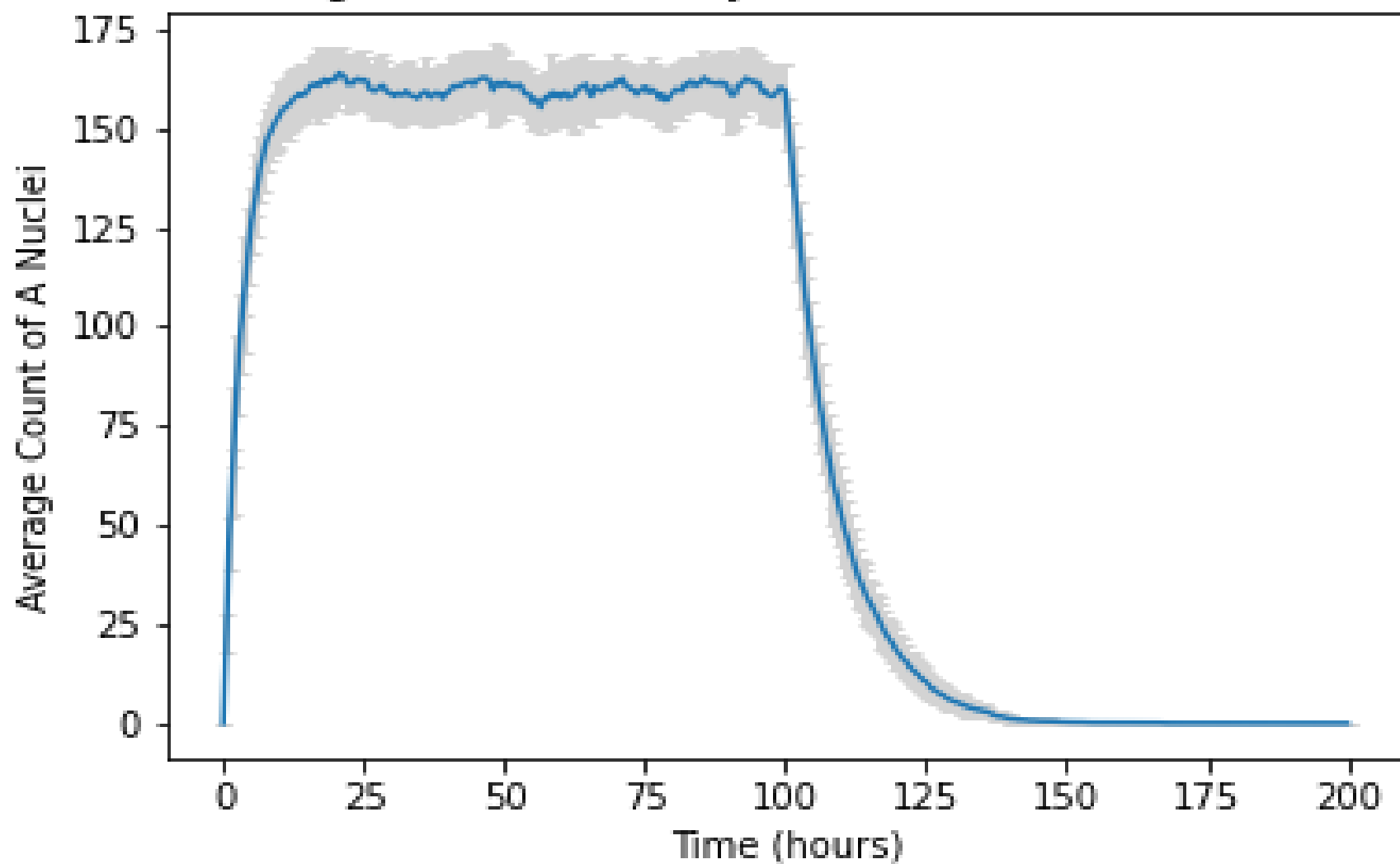
Projectile Range as a Function of Initial Velocity



Nuclei Transitions over Time

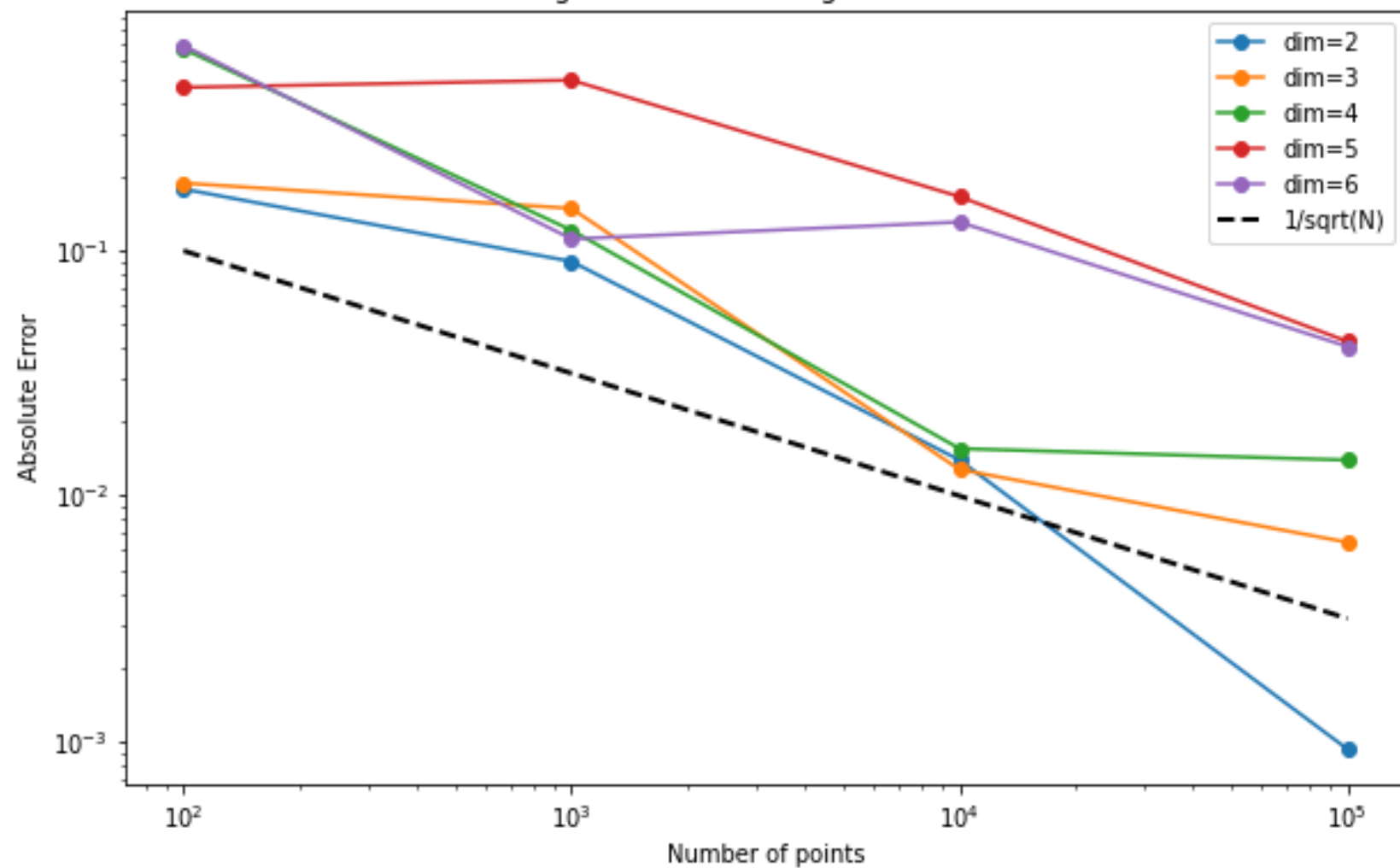


Average and Uncertainty of A Atom Count Over Time

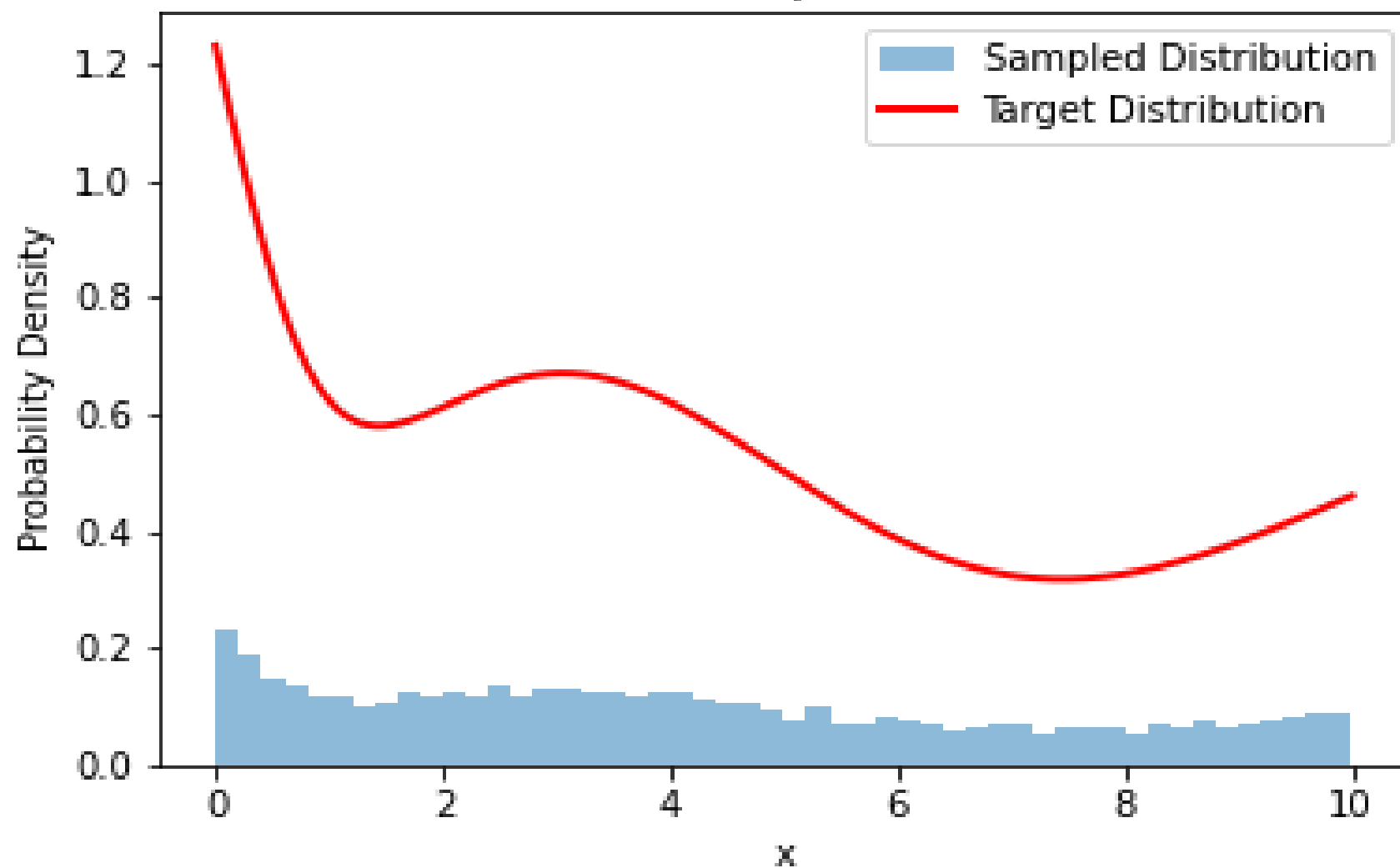




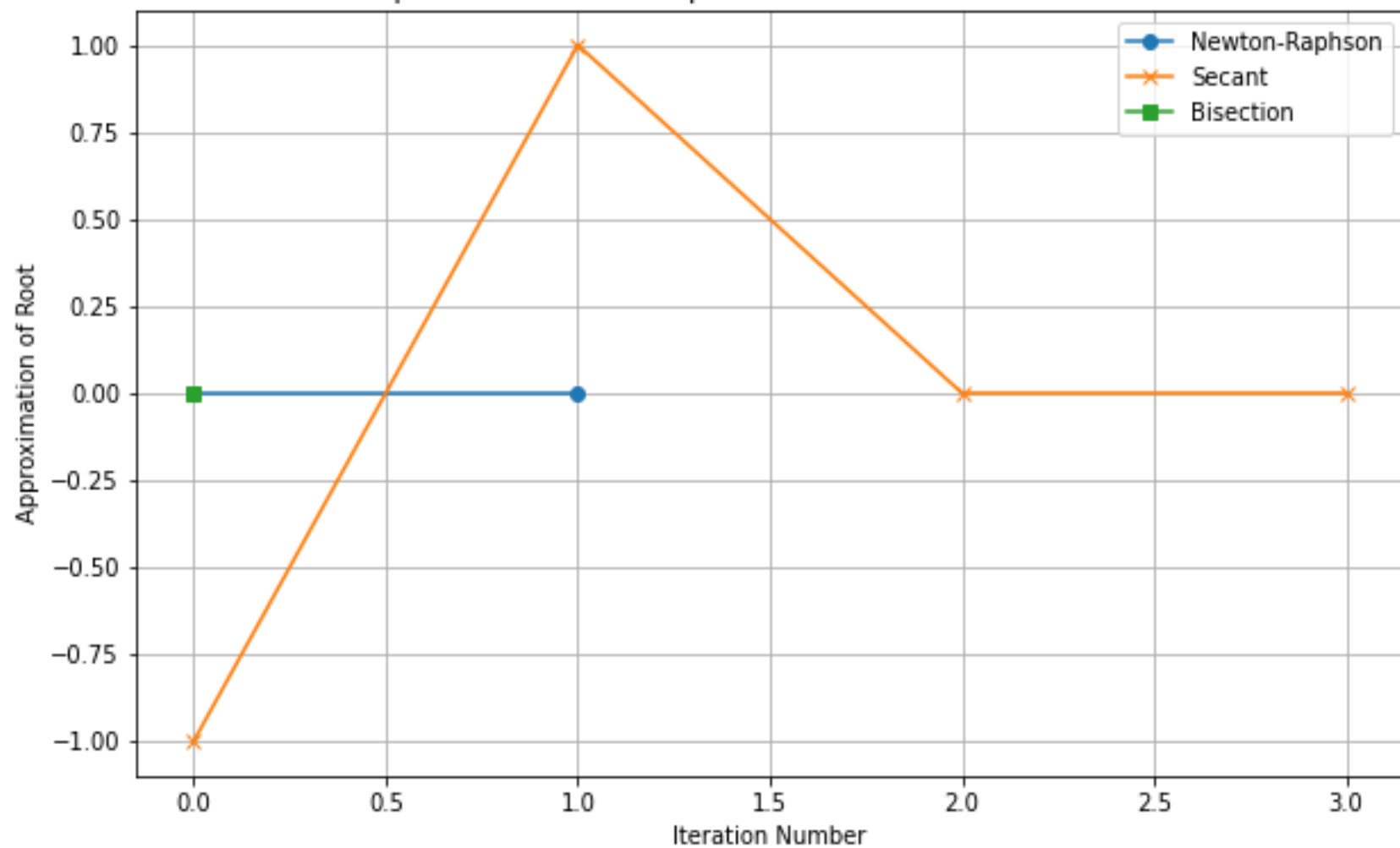
Monte Carlo Integration Error Scaling with the Number of Points

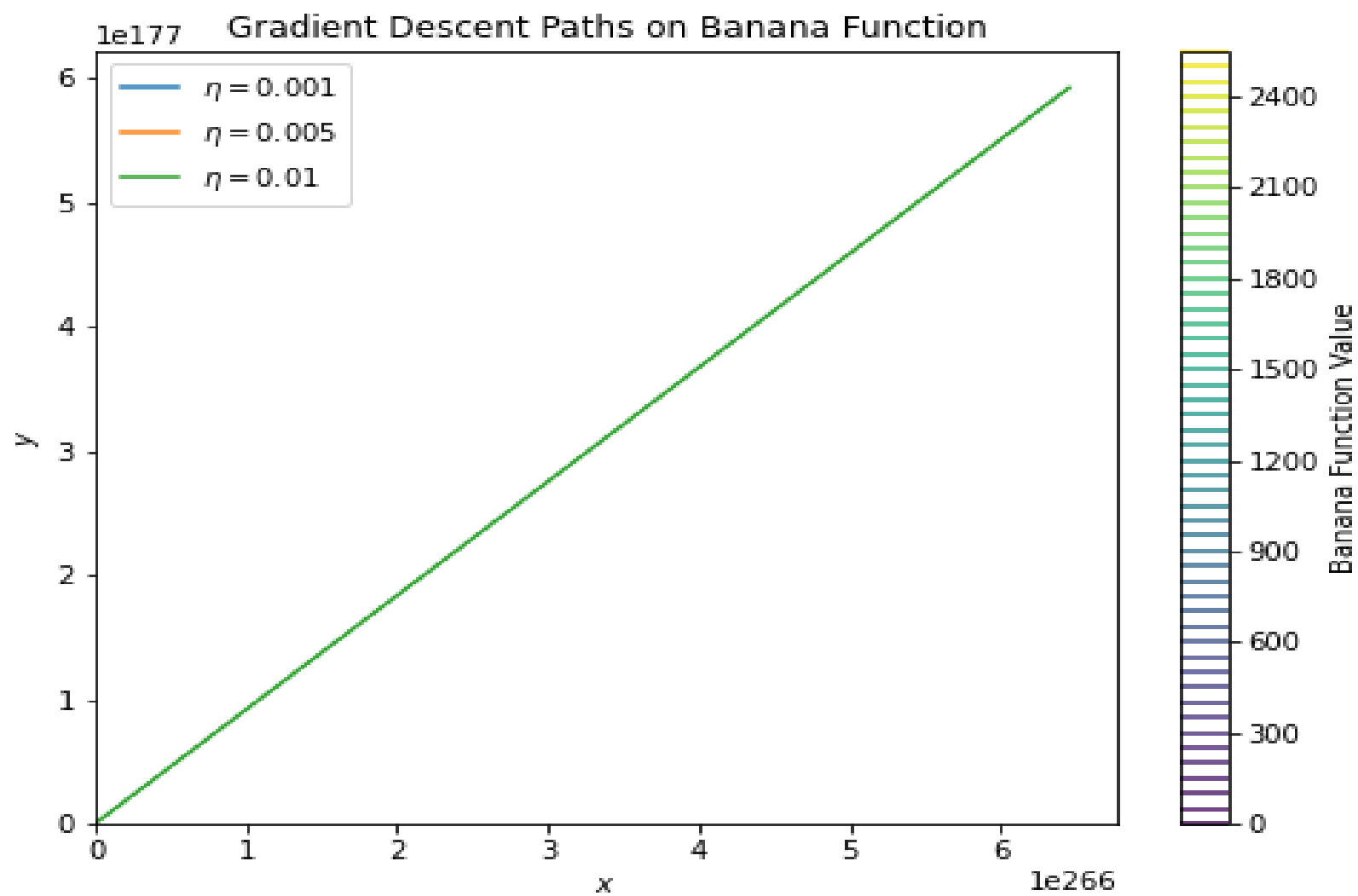


Monte Carlo Sampled Distribution

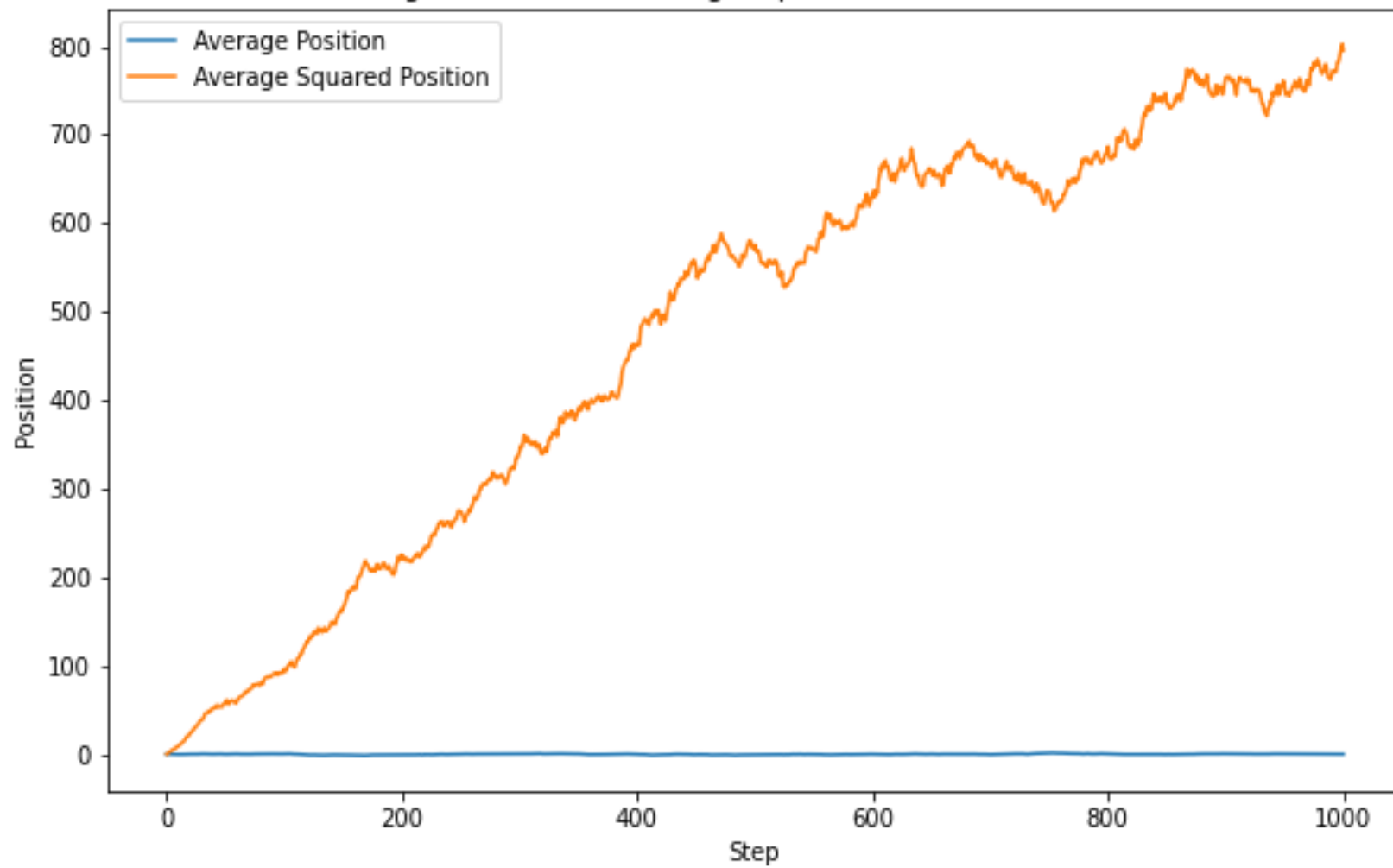


Comparison of Newton-Raphson, Secant, and Bisection Methods

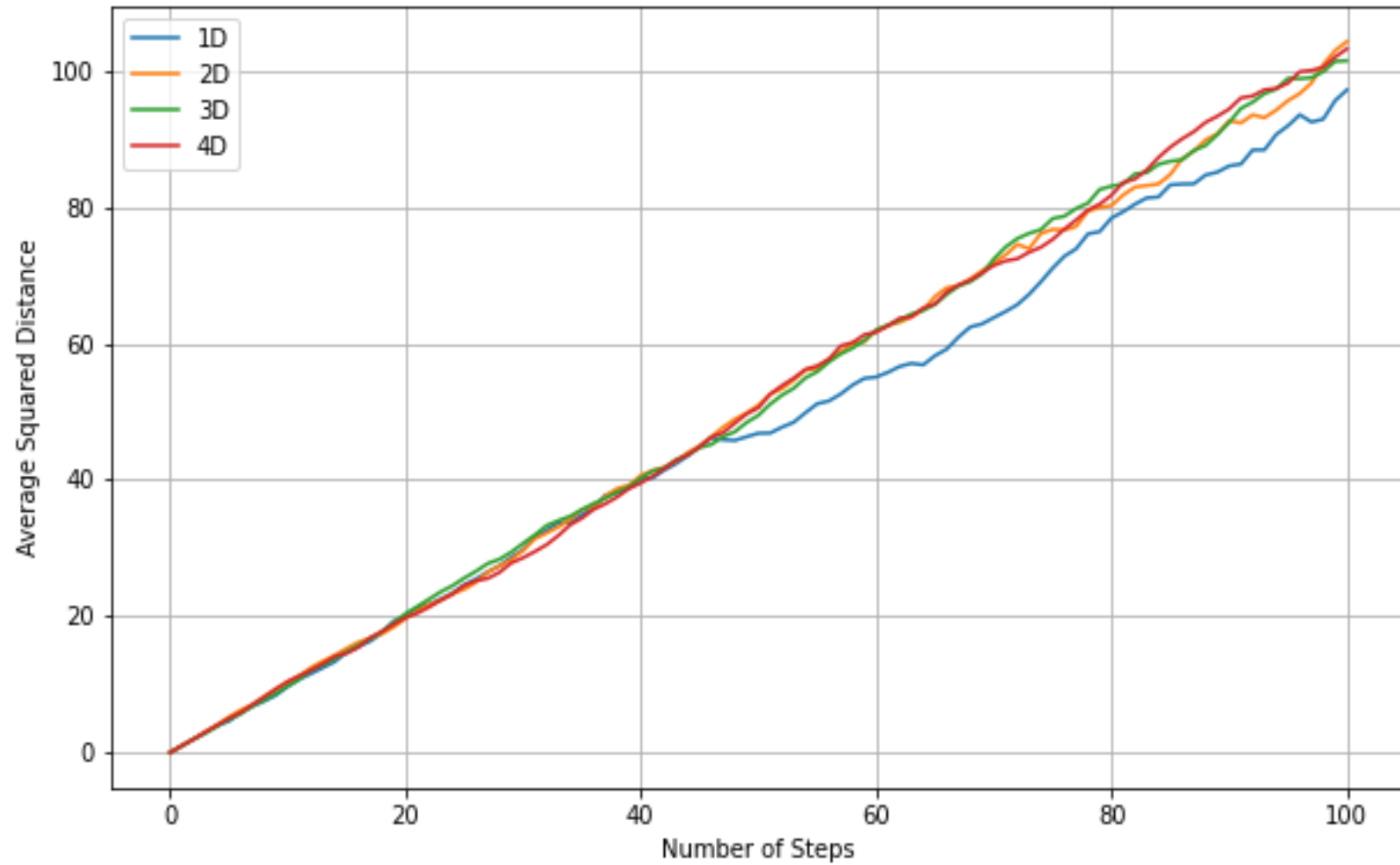




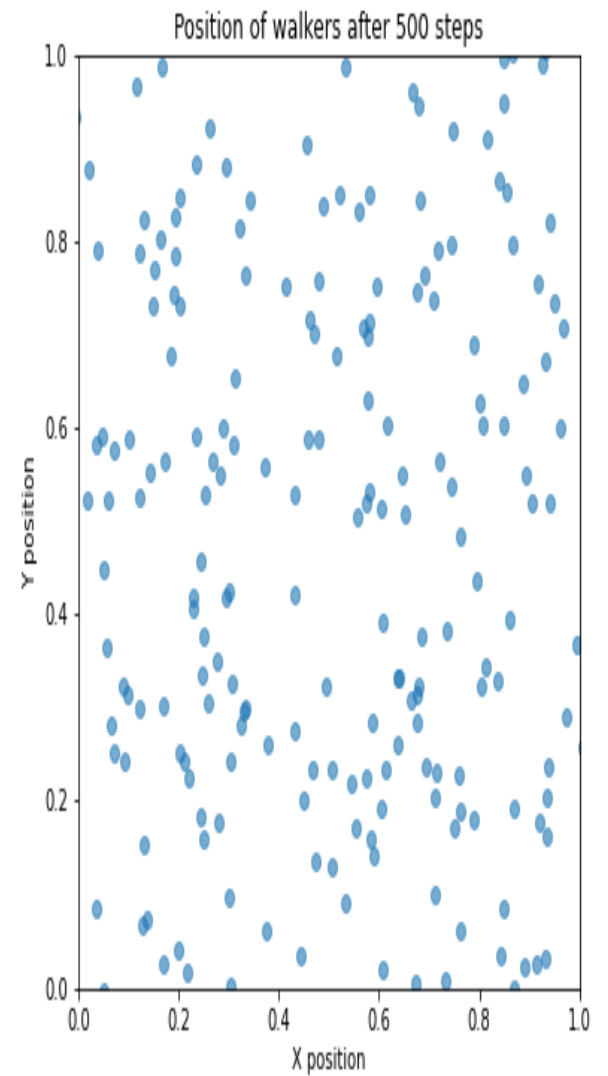
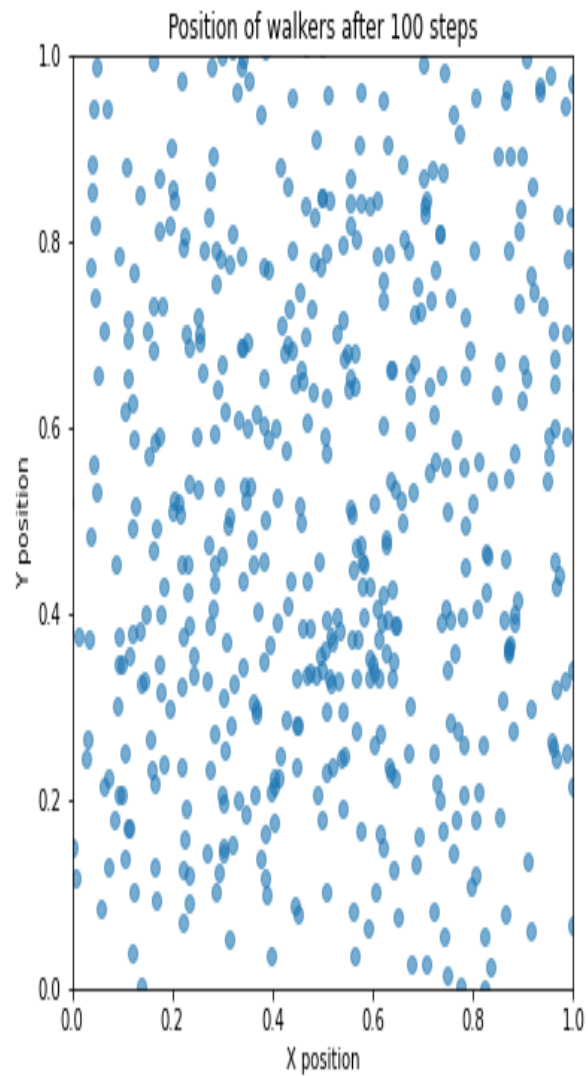
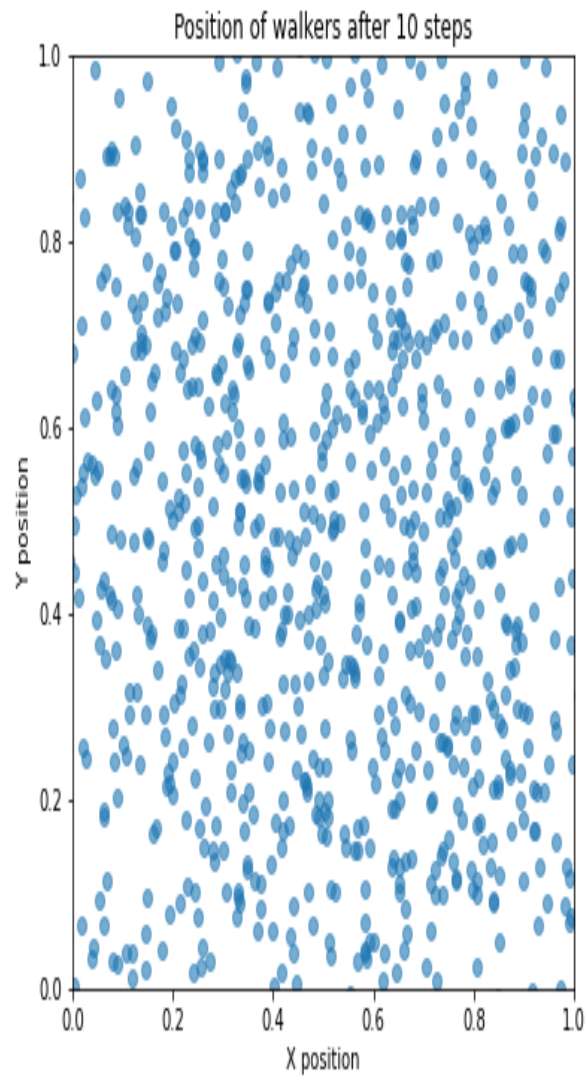
Average Position and Average Squared Position of 1D Walkers



Average Squared Distance Versus Number of Steps for Different Dimensions



## Diffusion of particles in 2D space



AI?