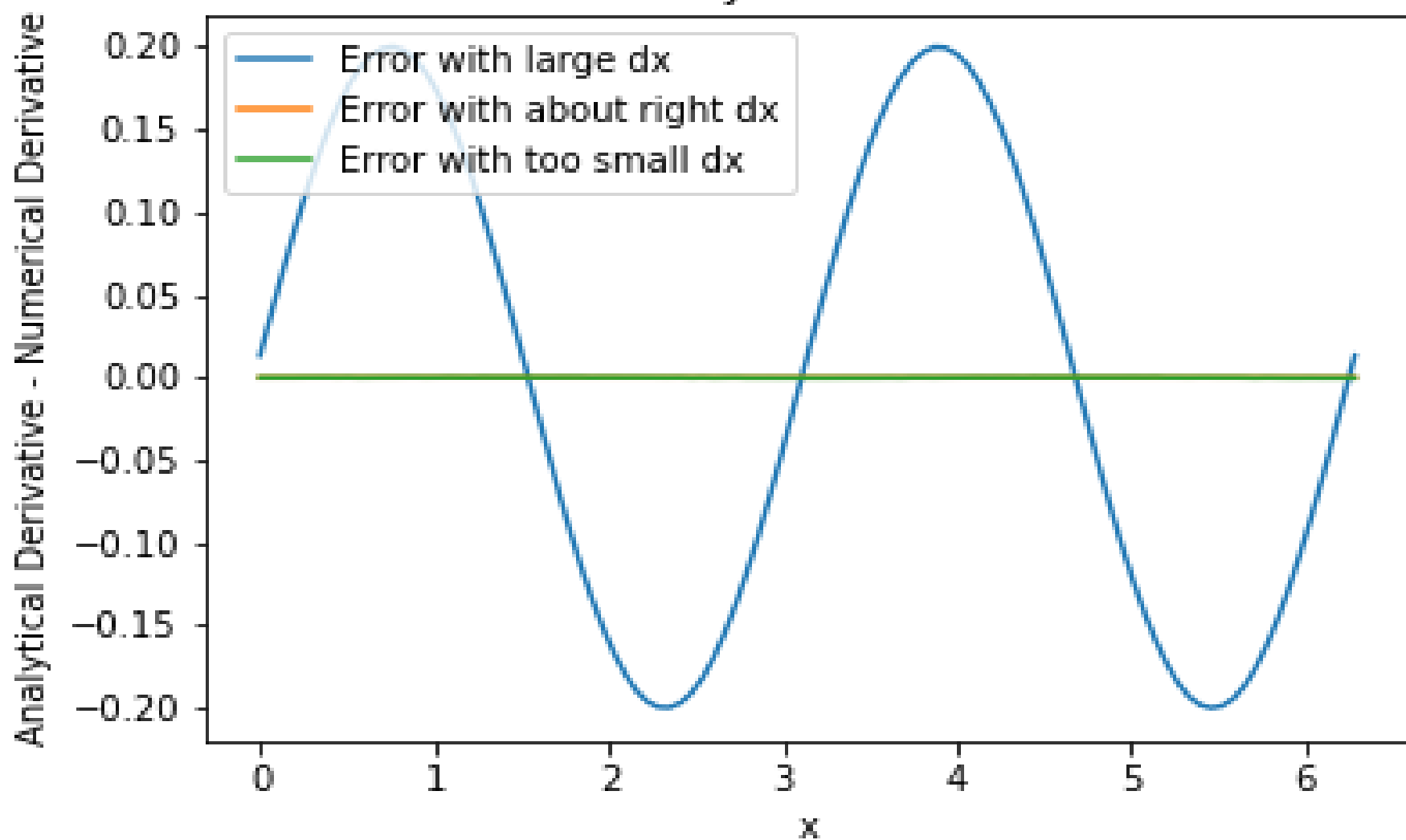
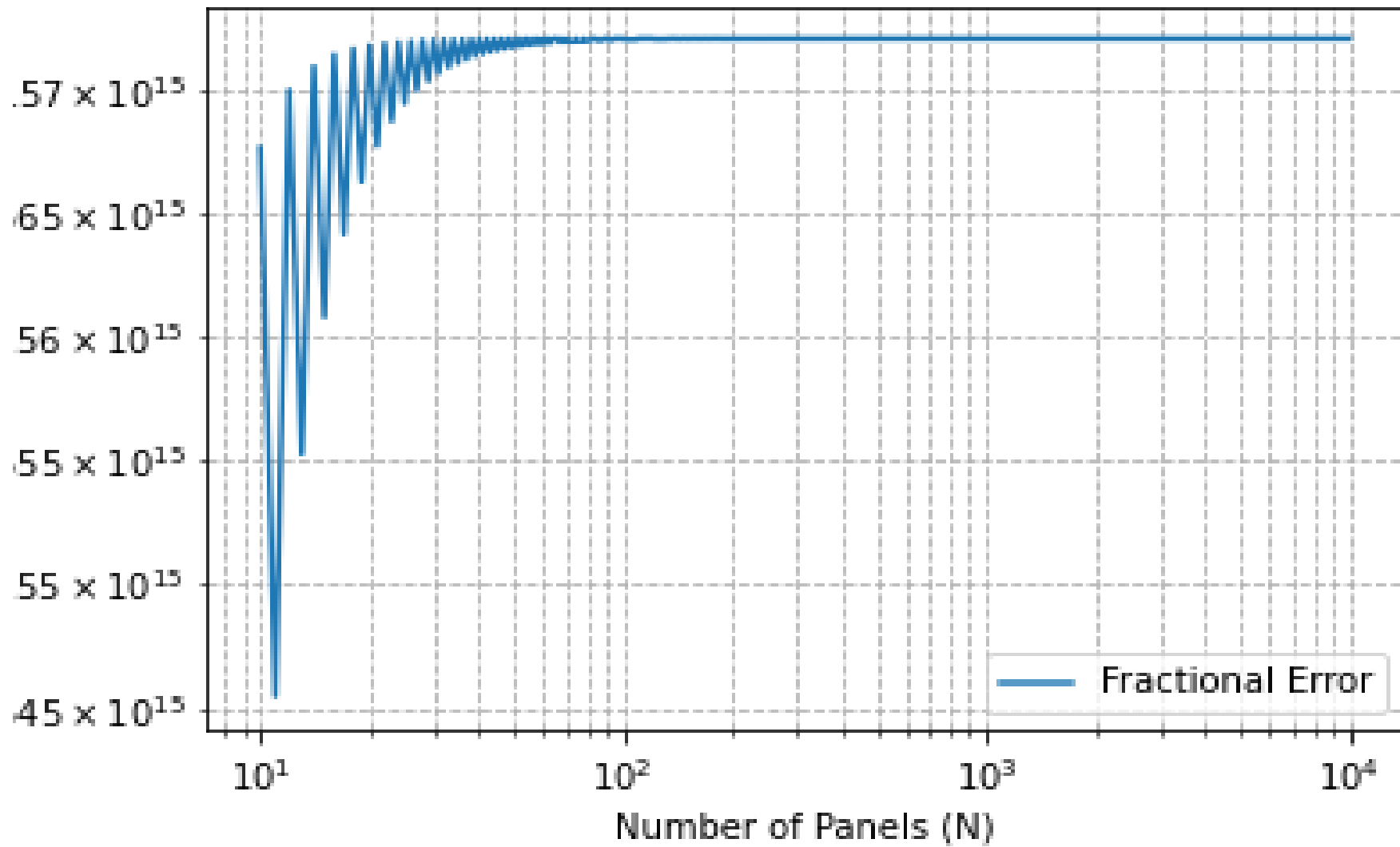


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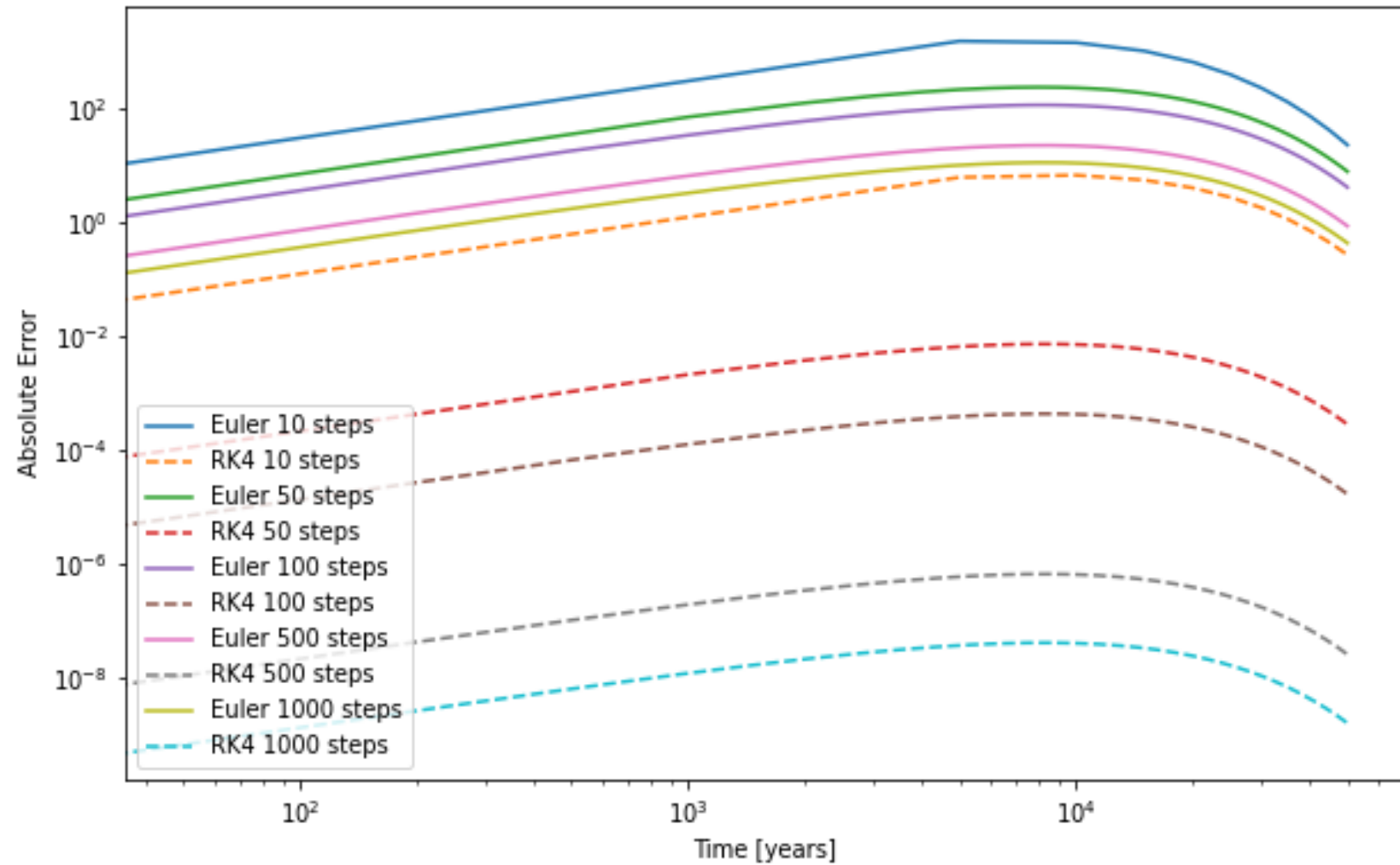
Difference between Analytical and Numerical Derivatives



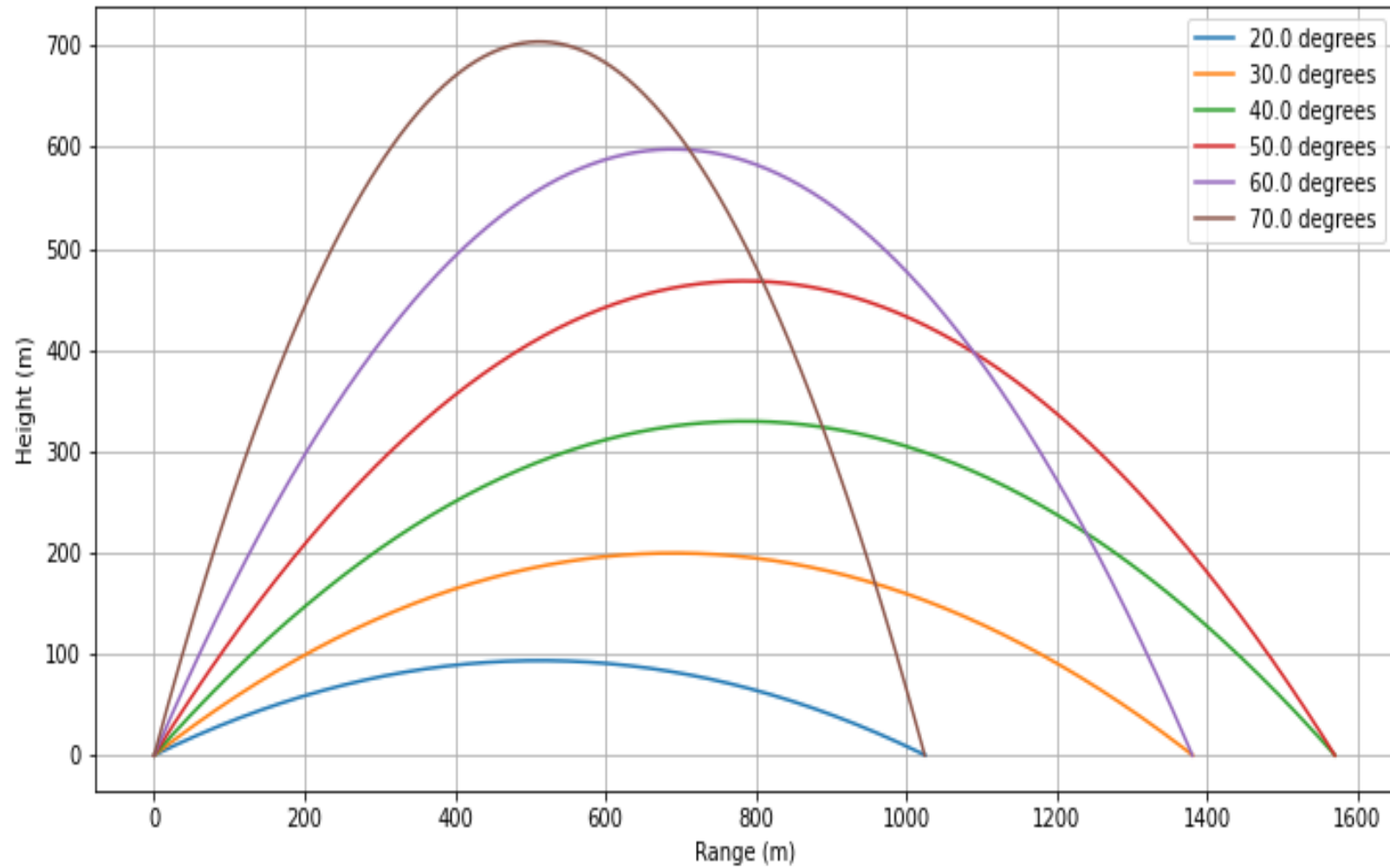
Fractional Error of Simpson's Rule Integration



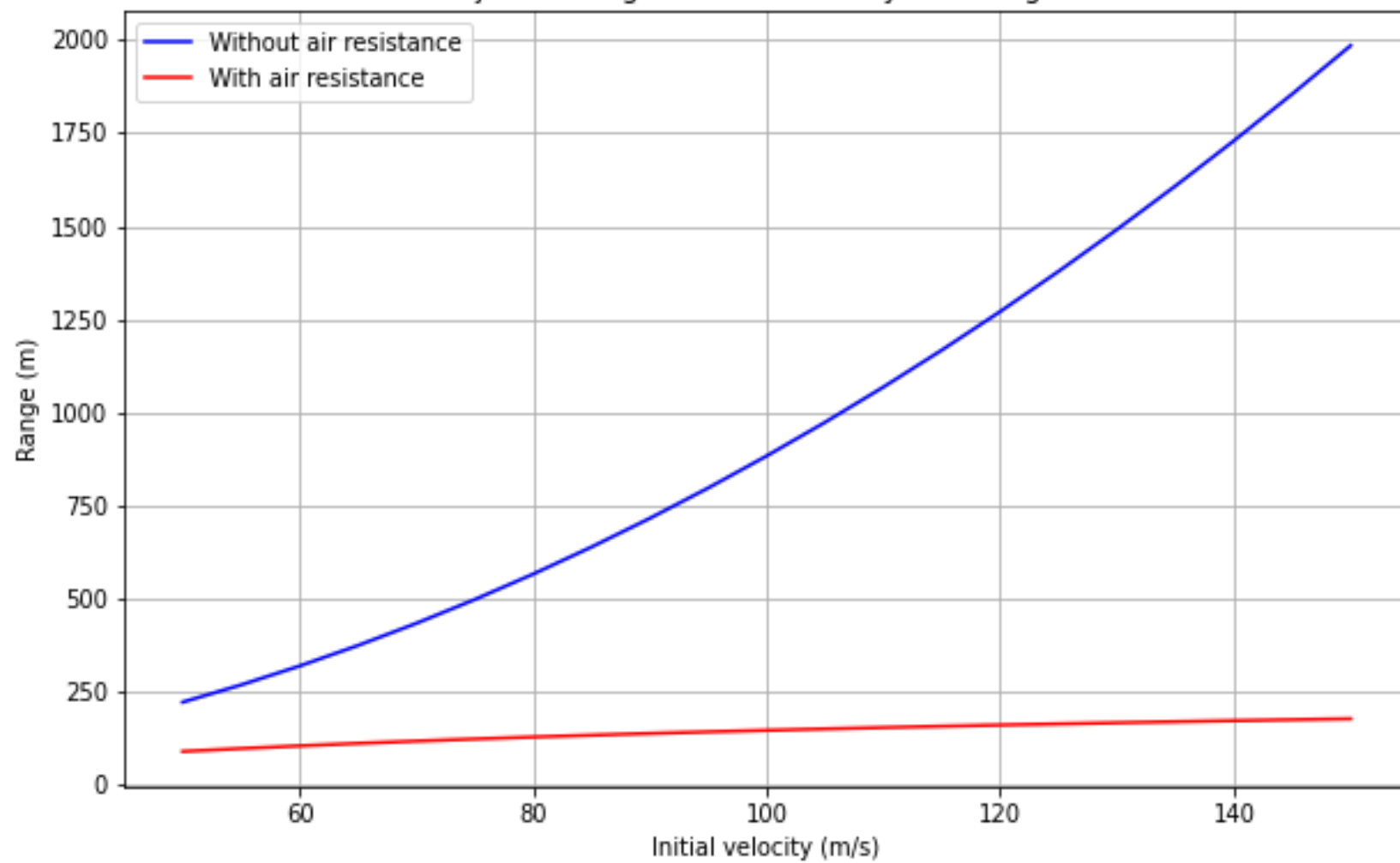
Error Scaling with Step Number for Euler vs. RK4 Methods



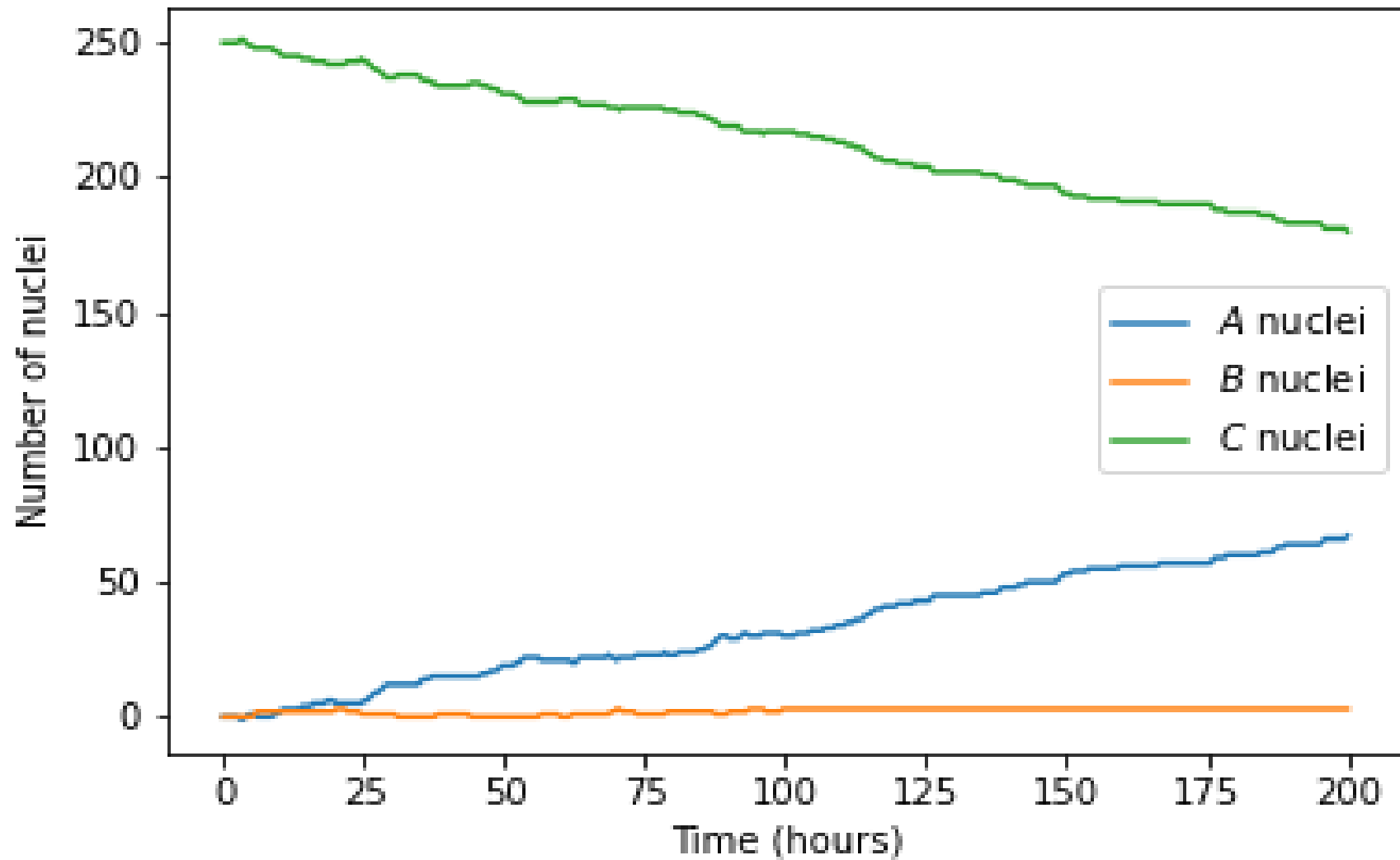
Projectile Trajectories for Different Angles



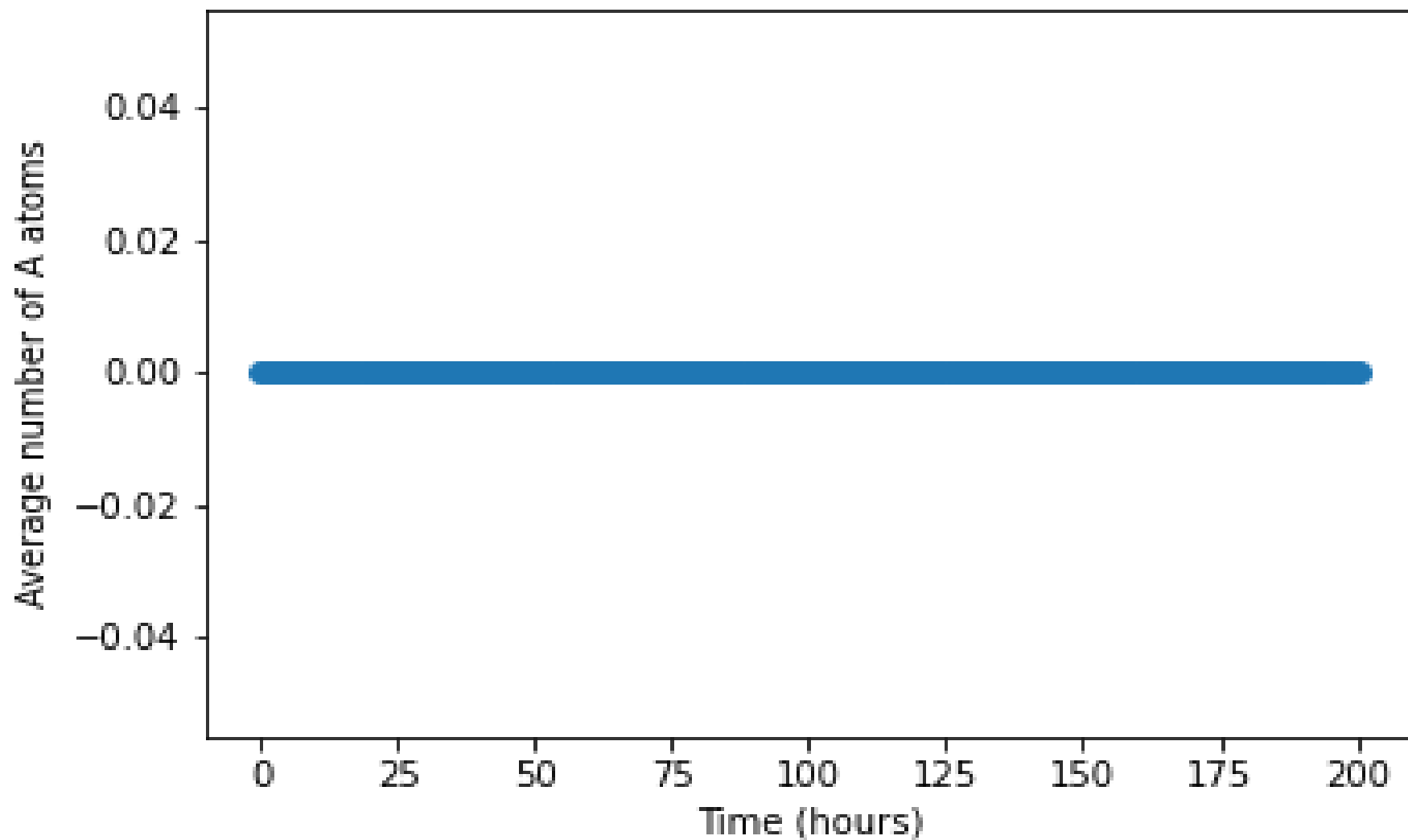
Projectile Range vs Initial Velocity at 60 degrees



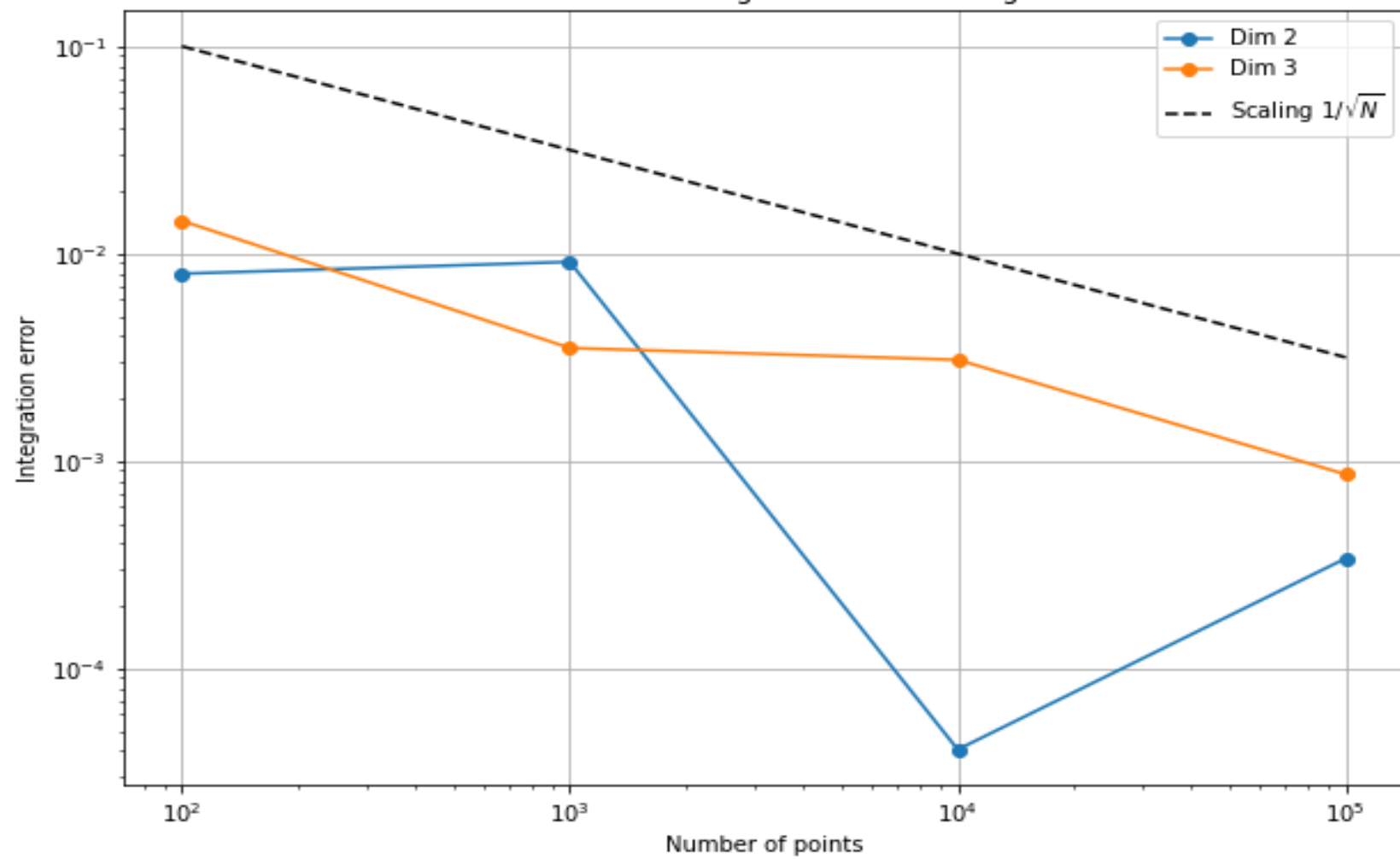
Evolution of A , B and C nuclei over time



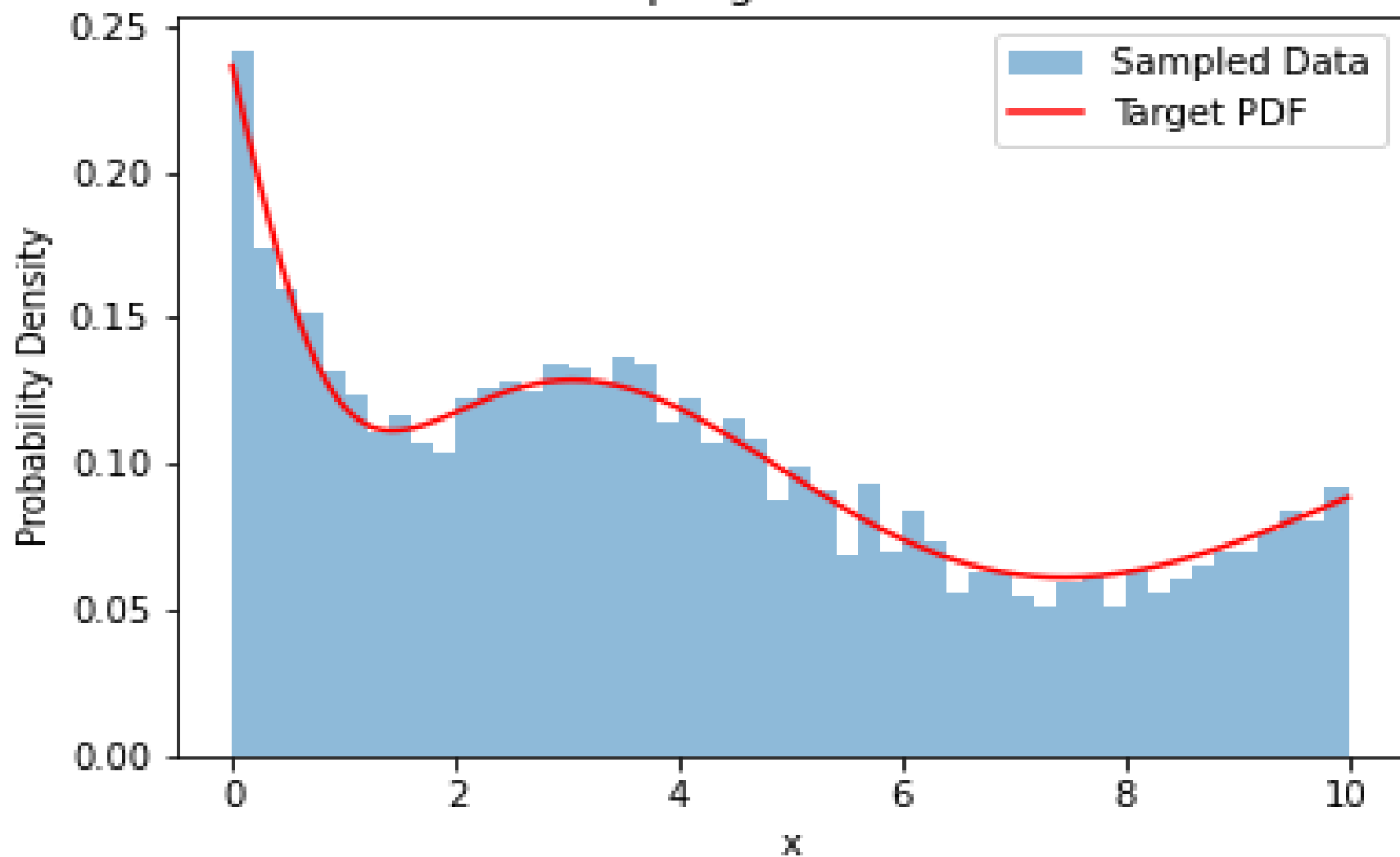
Average and Uncertainty of A Atoms Over Time



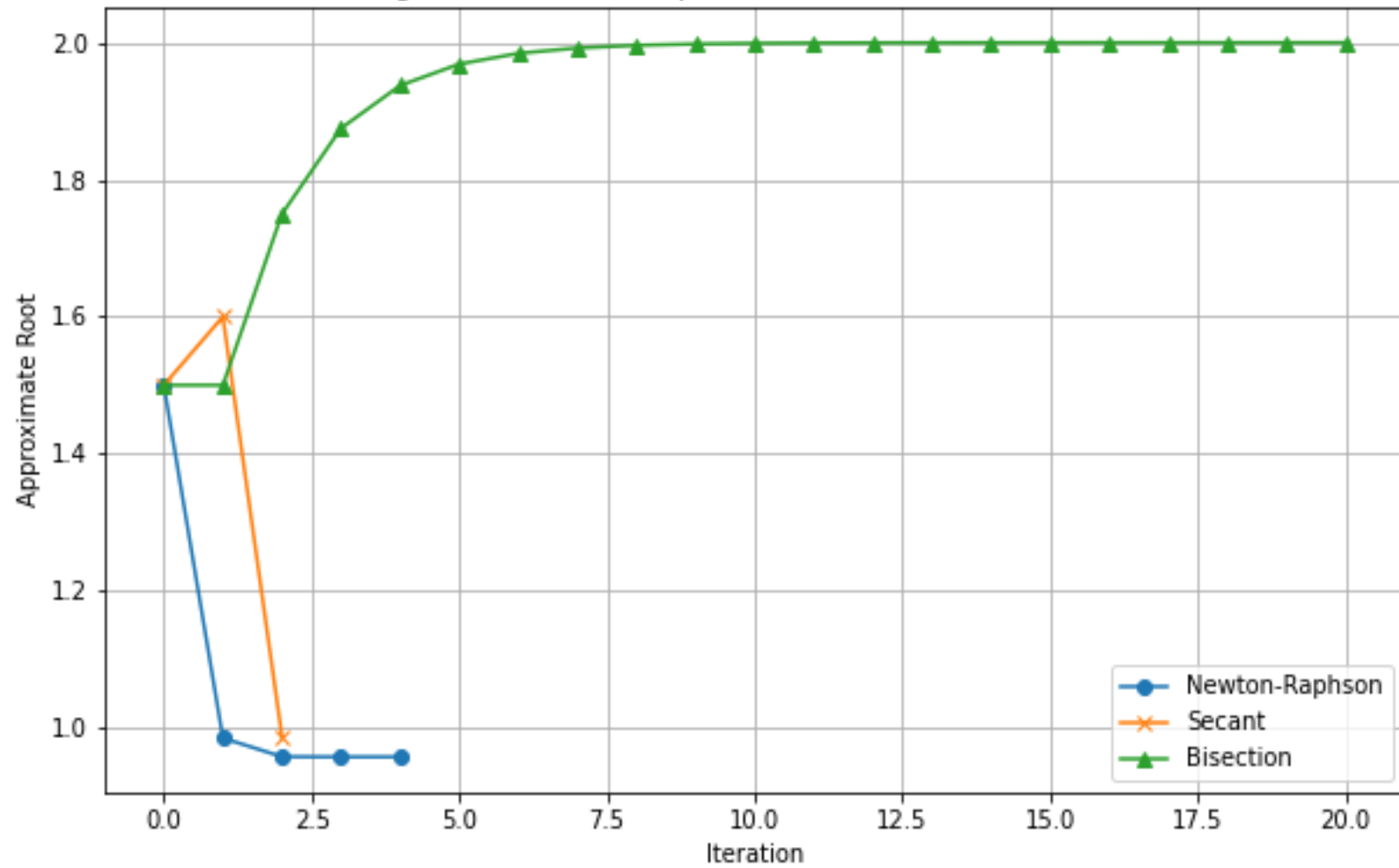
Monte Carlo Integration Error Scaling

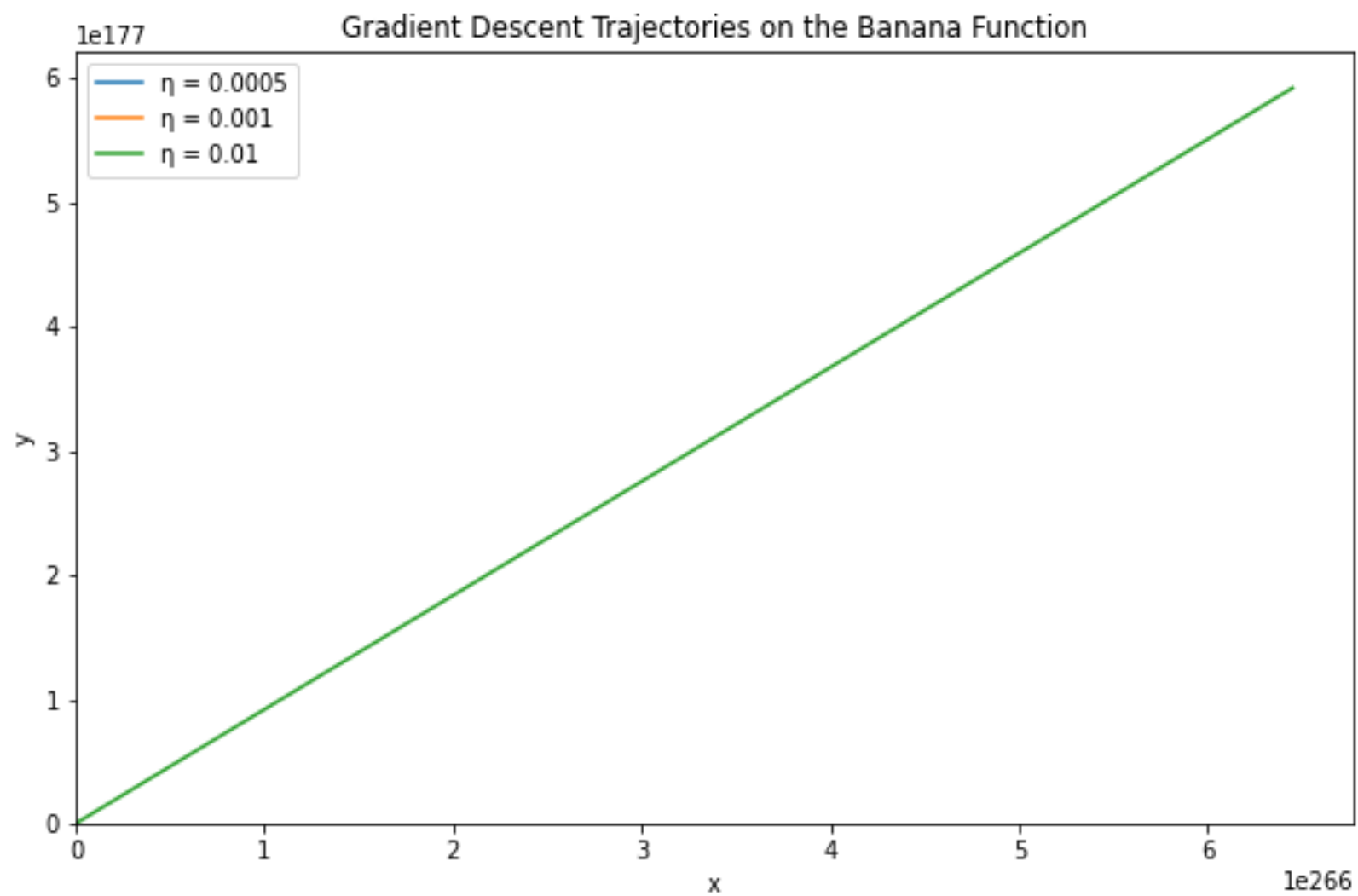


Monte Carlo Sampling of a Custom Distribution

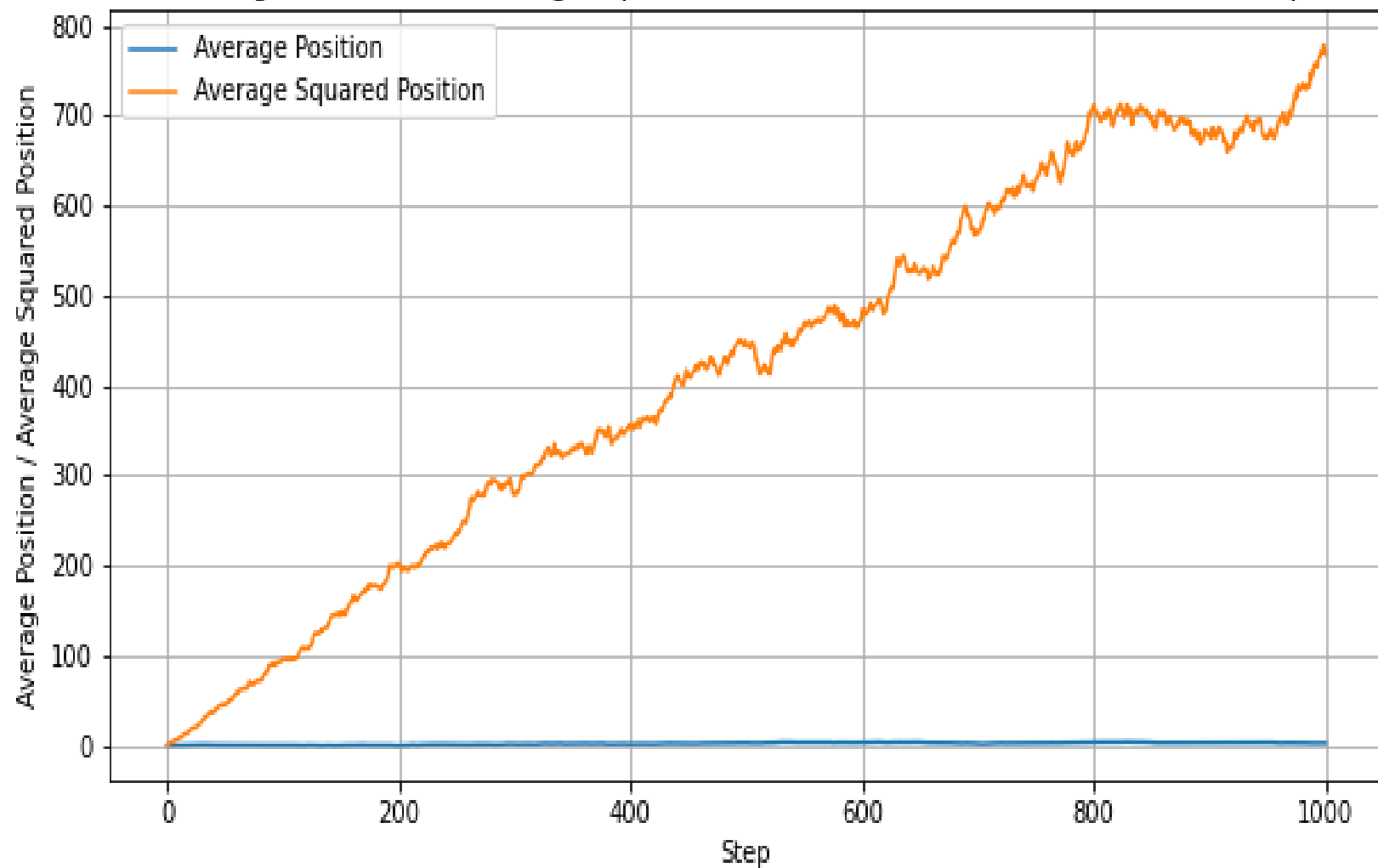


Convergence of Newton-Raphson, Secant, and Bisection Methods

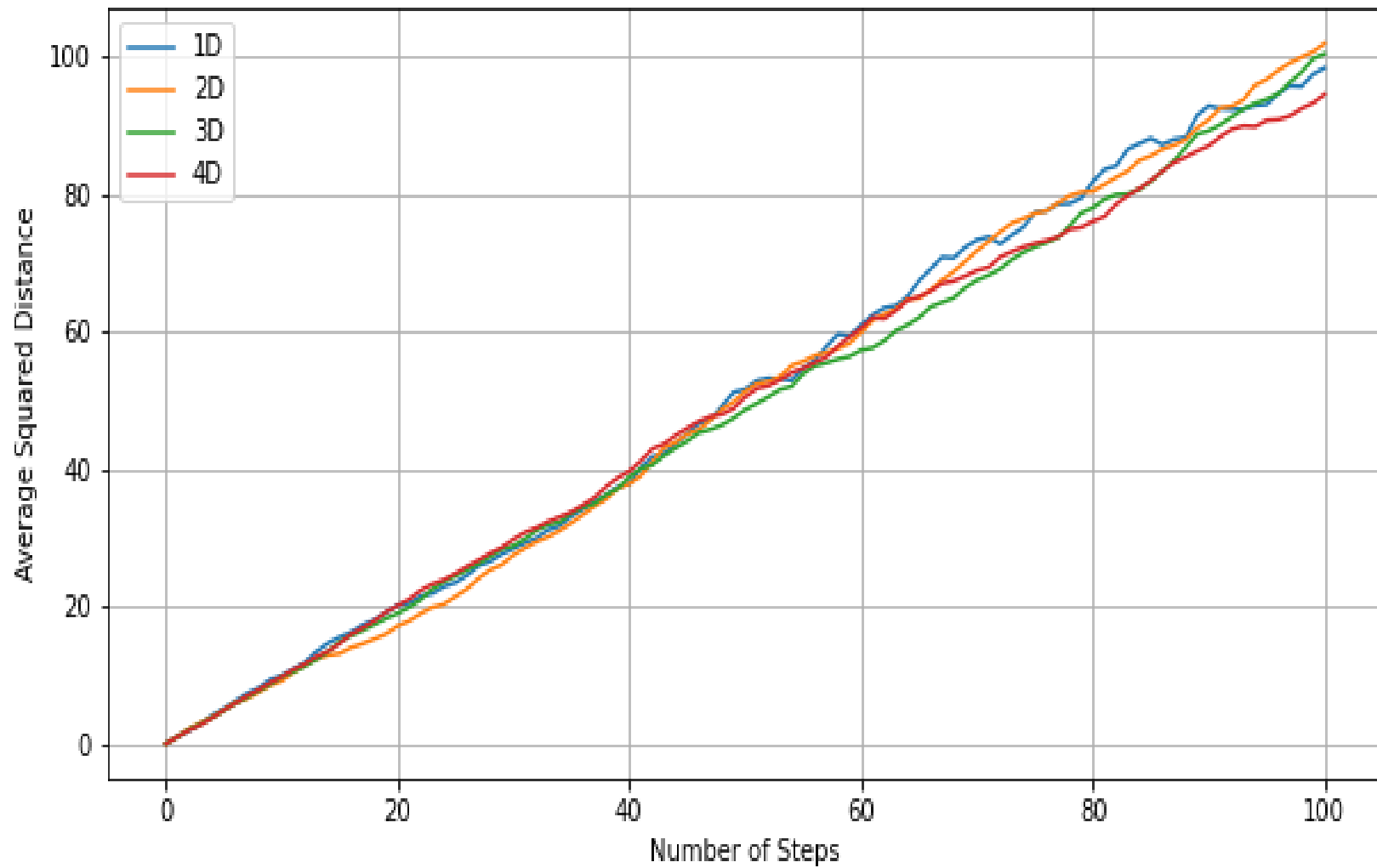




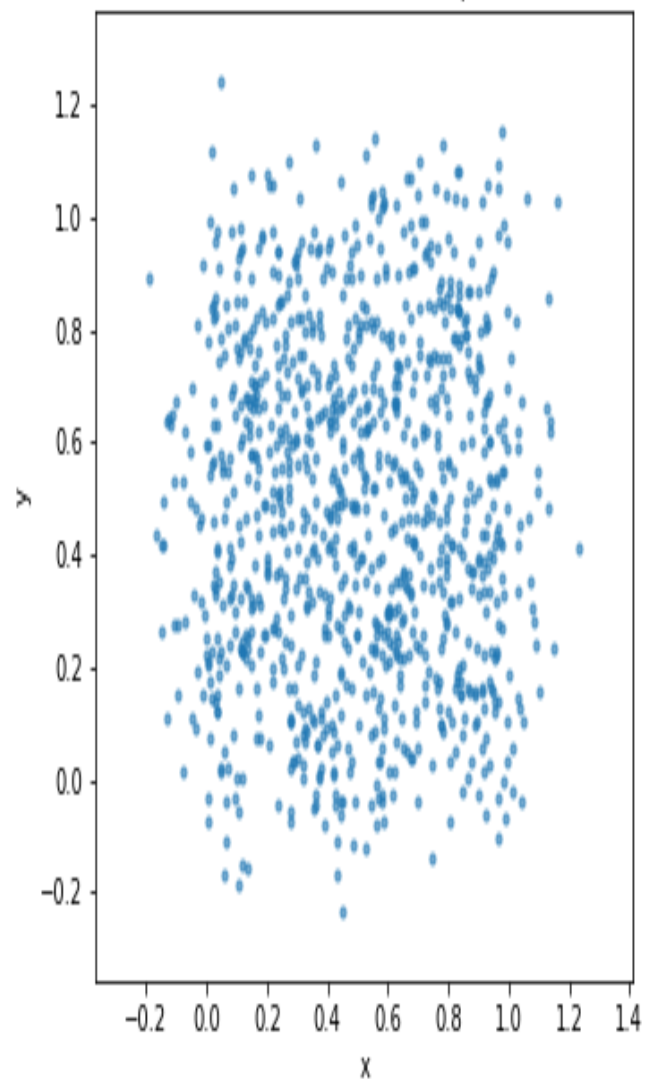
Average Position and Average Squared Position of 100 1D Walkers Over 1000 Steps



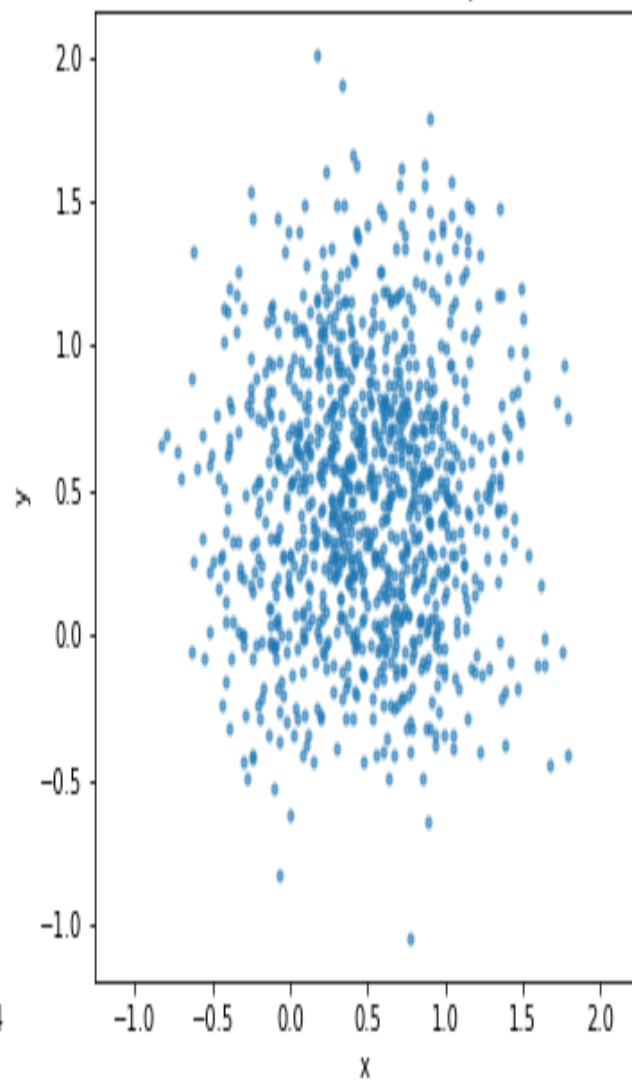
Average Squared Distance vs Number of Steps for Random Walkers



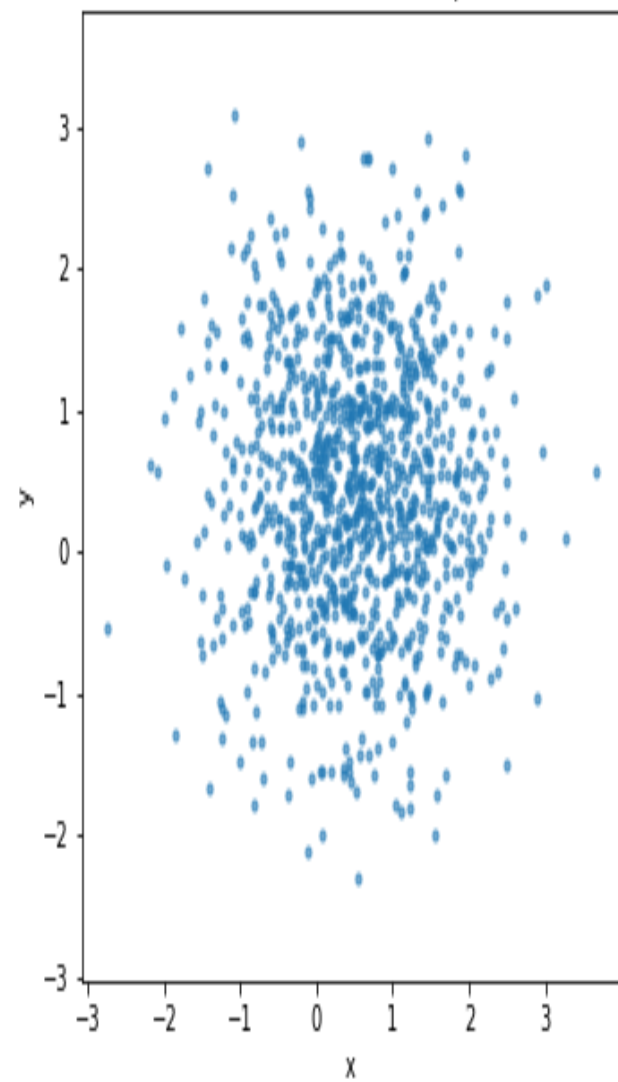
Position after 10 steps



Position after 100 steps



Position after 500 steps



AI?