

Problem #2: Brachistochrone Optimal Control Problem

Result-

The simulation is learning iteratively with every update of t_{f_guess} hence giving a better estimate of final time. The final time was estimated to be $T_f = 0.856$ seconds

Plots for $K=5$ intervals

Initial guess –

$$t_{f_guess} = 2; x_{0guess} = 0.2; y_{0guess} = 0.2;$$



