PROBLEMS

PS C:\Users\USER>

PS C:\Users\USER> & C:/Users/USER/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/USER/Desktop/113 2/數值方法不應該長這樣/hw3 1.py Degree 1: Lagrange approximation = 0.732077, Error bound = 4.420000e-04 Degree 2: Lagrange approximation = 0.731716, Error bound = 2.652000e-06 Degree 3: Lagrange approximation = 0.731704, Error bound = 3.513900e-08 Degree 4: Lagrange approximation = 0.731704, Error bound = 3.513900e-08 PS C:\Users\USER> & C:/Users/USER/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/USER/Desktop/113 2/數值方法不應該長這樣/hw3 2.py Approximate solution to $x - e^{-x} = 0$: $x \approx 2.288173$ PS C:\Users\USER> & C:/Users/USER/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/USER/Desktop/113 2/數值方法不應該長這樣/hw3 3.py 當 t = 10 秒時,預測距離為 768.96 英尺,預測速度為 74.64 英尺/秒 汽車首次超過限速 55 mi/h 的時間為 t ≈ 3.15 秒 預測最大速度為 92.04 英尺/秒,發生於 t ≈ 4.06 秒