Prob1:

box counting h need 2.5e-10 for 8 significant digits

Trapezoid h need 2.5e-5 for 8 significant digits

Prob2:

Trapezoid h need 2e-4 for 8 significant digits

Simpson’s h need 2e-2 for 8 significant digits

Simpson’s 的準確度較 Trapezoid 為精確 ,以Simpson’s 的值比對出Trapezoid的 h 值

Simpson’s 在10^-2 左右會收斂 h 大約為2e-2

Prob3:

You need 10000000 point