Answer sheet: Interpolation and Quadrature

NAME

EXERCISE 1
(Attach code)

Estimated order of accuracy using

trapezoidal rule for I_1:

Simpsons rule for I_1:

trapeziodal rule for I_2:

Simpsons rule for I_2:

EXERCISE 2

Number of function evaluations required to evaluate I_1 and I_2 respectively:

Why are these numbers so different?

EXERCISE 3
(attach plots)

Comments (similarities/differences between the resulting polynomials for various N):

Any Comments? (*Note:* **not required to pass the lab**)

Computed center of mass:

COMMENTS ON LAB

Fun/boring, easy/difficult, suggestions for improvement: