MSDM5004 Spring 2021
Homework 2 (Part I)
Due Mar. 14

1. Write codes using MATLAB (or other programming language) to evaluate the integral

$$\int_0^1 \sqrt{1 + \sin^3 x}\,\mathrm{d}x$$

using (1) composite trapezoidal rule and (2) composite two-point Gauss quadrature, for the number of subintervals $n = 8, 16, 32$.