

Homework 5

Work,

Burden-Faires: 3.4.4(d), 3.4.6(d), 3.4.8(d)

Burden-Faires: 4.1.5(b)

Burden-Faires: 4.4.2(a,c), 4(a,c), 12

Burden-Faires: 4.6.6(a)

Burden-Faires: 4.7.1(b,g), 2(b,g)

Burden-Faires: 4.8.1(a,c), 2(a,c)

Burden-Faires: 4.9.2(a), 3(c)

Part 2. Integration. Calculate each of the following integrals to 5 significant digits. Graph the integrand over the interval of integration. Describe the method you used and give a reason for the technique chosen. Provide a copy of the program you used for these computations.

A. $\int_0^\infty e^{-t^4} dt$

B. $\int_0^{2\pi} \frac{\sin(t)}{t} dt$

C. $\int_0^5 \sin(t^4) dt$