

SECTION 3.6: NUMERICAL INTEGRATION (EXTRA)

1. Recall from 3.6

(a) The Midpoint Rule:

(b) The Trapezoid Rule:

(c) Simpson's Rule:

2. We estimated $\int_0^2 e^{x^2} dx$ using

(a) M_4

(b) T_4

(c) S_4

(d) Wolfram Alpha as 16.45262776550

3. It is possible to estimate error.

(a) For the Midpoint Rule.

(b) For Simpson's Rule.