

Math-71 Sections 02, 03, 60

Homework #12

Due: 12/9/2019 1:15pm

Reading

Read sections 11.6 and 12.3.

Problem

Using the trapezoidal rule, estimate the area under the curve $f(x) = x^3$ from $x = 0$ to $x = 1$ using a partition size of $n = 10$. Start by constructing a table of x_i and $f(x_i)$ values and then perform the calculation from the values in the table.