

MATH 134 – Calculus with Fundamentals 2

Quiz 1 – February 2, 2018

Your Name: _____

Directions

There are 30 total points possible (distributed as indicated in the questions). You may use a calculator, but not a phone or any other electronic device.

I. Consider the function $f(x) = x^2 + 3x$ on the interval $[a, b] = [2, 4]$.

A. (5) What is the Δx for the subdivision with $N = 4$ equal subintervals?

B. (5) What are the intermediate points x_j for $j = 1, 2, 3$?

C. (5) What is value of the R_4 right-hand sum for this function and interval?

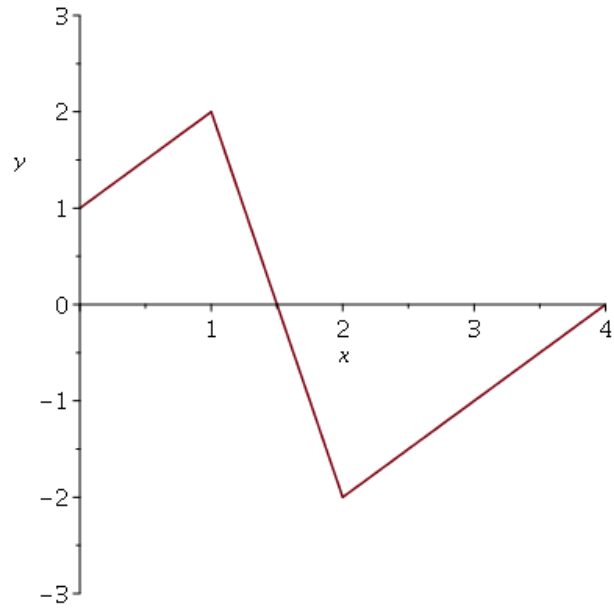


Figure 1: The graph $y = f(x)$

II. A. (7.5) What is the value of the integral $\int_0^1 f(x) dx$?

B. (7.5) What is the value of the integral $\int_1^4 f(x) dx$?