



RiemannSum.vi Readme

RiemannSum.vi calculates the definite integral of a function. This VI also calculates and displays two approximations of the integral by finding the sums of the areas of two sets of rectangles – a Left Hand Sum and a Right Hand Sum.

The VI has controls for the beginning and end values of the interval for integration. The interval from Start to End is divided into subintervals, delta x in length. Each subinterval determines a rectangle where the height of the rectangle is the value of the function at the right or left endpoint of the subinterval.

Many common functions can be used for the Function. For example, x , x^2 , x^3 , $\text{abs}(x)$, $\text{sqrt}(x)$, $\text{sin}(x)$, $\text{cos}(x)$, 2^x , $1/x$, $\text{exp}(x)$, $\text{ln}(x)$ can be used.

This VI was built using LabVIEW 8.5 on a Mac running OS X. The VIs will run in Windows with LabVIEW 8.5 or later installed.

Please direct all comments and questions regarding the contents of this document to:

Eric Mann
ericfmann@gmail.com
(512) 363-9379

This document and the VI are the property of Education Service Center, Region XIII. Please direct any comments and questions about the use or distribution of these materials to:

Stacy Avery
Education Service Center, Region XIII
www.esc13.net
(512) 919-5313

Warm regards,

Eric Mann