



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, Δx 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 , $\text{abs}(x)$, $\text{sqrt}(x)$, $\sin(x)$, $\cos(x)$, 2^x , $1/x$, $\exp(x)$, $\ln(x)$ 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:

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Warm regards,

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