Riemann Sums

This program computes the Left Sum, Right Sum, Midpoint Sum, Trapezoidal and Simpson Rules for a given function on a specific interval and a given number of points. We call the program using the statement
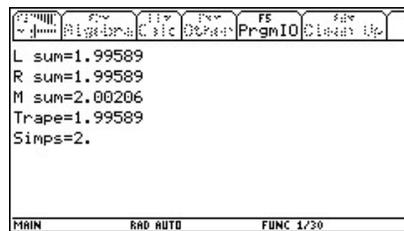
$$rsums(f(x),\ x,\ a,\ b,\ n)$$

where $f(x)$ is the function, x the variable of integration, a and b give the interval of integration and n is the number of points for the sums.

Example.

$$rsums(sin(x), x, 0, \pi, 20)$$

The following screen show the results of the computation.