scipy.integrate.romb

scipy.integrate.**romb**(*y*, *dx=1.0*, *axis=-1*, *show=False*) [source] (https://github.com/scipy/scipy/blob/v1.1.0/scipy/integrate/quadrature.py#L459-L573)

Romberg integration using samples of a function.

Parameters:

y : *array_like*

A vector of `2**k + 1` equally-spaced samples of a function.

dx : *float, optional*

The sample spacing. Default is 1.

axis : *int, optional*

The axis along which to integrate. Default is -1 (last axis).

show : *bool, optional*

When *y* is a single 1-D array, then if this argument is True print the table showing Richardson extrapolation from the samples. Default is False.

Returns:

romb : *ndarray*

The integrated result for *axis*.

See also:

quad (scipy.integrate.quad.html#scipy.integrate.quad) adaptive quadrature using QUADPACK
romberg (scipy.integrate.romberg.html#scipy.integrate.romberg) adaptive Romberg quadrature
quadrature (scipy.integrate.quadrature.html#scipy.integrate.quadrature) adaptive Gaussian quadrature
fixed_quad (scipy.integrate.fixed_quad.html#scipy.integrate.fixed_quad) fixed-order Gaussian quadrature
dblquad (scipy.integrate.dblquad.html#scipy.integrate.dblquad) double integrals
tplquad (scipy.integrate.tplquad.html#scipy.integrate.tplquad) triple integrals
simps (scipy.integrate.simps.html#scipy.integrate.simps) integrators for sampled data
cumtrapz (scipy.integrate.cumtrapz.html#scipy.integrate.cumtrapz) cumulative integration for sampled data
ode (scipy.integrate.ode.html#scipy.integrate.ode) ODE integrators
odeint (scipy.integrate.odeint.html#scipy.integrate.odeint) ODE integrators

Examples