

NEW FORMULA 3.249.5

The original formula is

$$\int_0^1 (1-x^2)^{\mu-1} dx = 2^{2\mu-2} B(\mu, \mu) = \frac{1}{2} B\left(\frac{1}{2}, \mu\right)$$

it would be nicer to have it in the form (simply replacing μ by a as parameter)

$$\int_0^1 (1-x^2)^{a-1} dx = 2^{2a-2} B(a, a) = \frac{1}{2} B\left(\frac{1}{2}, a\right)$$