

NEW FORMULA 3.193

The original formula is

$$\int_0^n x^{\nu-1}(n-x)^n dx = \frac{n^{\nu+n} n!}{\nu(\nu+1) \cdots (\nu+n)}$$

A second expression for the value of the integral should be added

$$\int_0^n x^{\nu-1}(n-x)^n dx = \frac{n^{\nu+n} n!}{(\nu)_{n+1}} = \frac{n^{\nu+n} n!}{\nu(\nu+1) \cdots (\nu+n)}$$