NEW FORMULA 3.196.1

The original formula is

$$\int_0^u (x+\beta)^\nu (u-x)^{\mu-1}\, dx = \frac{\beta^\nu u^\mu}{\mu}\, {}_2F_1\left[1, -\nu, 1+\mu; -u/\beta\right]$$

it looks better written as

$$\int_0^u (x+b)^a (u-x)^{c-1}\, dx = \frac{b^a u^c}{c}\, {}_2F_1\left[1, -a, 1+c; -u/b\right]$$