## NEW FORMULA 3.194.4

The original formula is

$$
\int_{0}^{\infty} \frac{x^{\mu-1} d x}{(1+\beta x)^{n+1}}=(-1)^{n} \frac{\pi}{\beta^{\mu}}\binom{\mu-1}{n} \operatorname{cosec}(\mu \pi)
$$

and it should be written as

$$
\int_{0}^{\infty} \frac{x^{a-1} d x}{(1+b x)^{n+1}}=(-1)^{n} \frac{\pi}{b^{a} \sin \pi a}\binom{a-1}{n}
$$

