

FORMULA 3.274.1

$$\int_0^{\infty} \frac{x^{\mu-1}(1-x)}{1-x^n} dx = \frac{\pi}{n} \sin \frac{\pi}{n} \operatorname{cosec} \frac{\mu\pi}{n} \operatorname{cosec} \frac{(\mu+1)\pi}{n}$$