$$0 < a < b: \quad \int_a^b \frac{{}^x\log^n}{x}: \quad \text{which } p > 0: \quad \int_2^\infty \frac{dx}{x\log^p x} < +\infty: \quad \int_1^{e-} \frac{1}{x\sqrt{1 - {}^x\log^2}}$$

$$\int_{-\pi/2}^{3\pi/2} {}^x\sin {}^x\cos: \quad \int \frac{dx}{\sin x} = \int \frac{dx \sin x}{(1+\cos x)(1-\cos x)}: \quad \int_{-\pi/4}^{\pi/4} \tan x: \quad \int_a^b e^{\sin 2x} \cos 2x \quad : \quad \int_0^{\sqrt{\pi}/2} x \tan\left(x^2\right)$$

$$\text{welche } p > 0: \quad \int_{dx}^{1|\infty} \frac{x}{\left(1+x^2\right)^p} \text{ konv?Wert} : \quad \int_0^1 \frac{x}{\left(1+x^2\right)^{3/2}}: \quad \int_2^6 x^2\sqrt{2x-3}$$

$$\int_0^1 \frac{x}{1+x^2}: \quad \int_1^2 \frac{{}^{1/x}\sin}{x^2}: \quad \int_0^{1-} x^{1-x^2}\log$$

$$\int_0^b x\, e^{x^2}: \quad \int_0^\infty x\, e^{-x^2} = \frac{1}{2}$$

$$u = x^2 \Longrightarrow du = 2xdx$$

$$2\int_{dx}^{0|\infty} x\, e^{-x^2} = \int_{du}^{0|\infty} e^{-u} = -\, e^{-u} \Big|_0^\infty = 1$$