

FORMULA 3.261.3

$$\int_0^1 \frac{x^{1+p} + x^{1-p}}{(1 + 2x \cos t + x^2)^2} dx = \frac{\pi(p \sin t \cos pt - \cos t \sin pt)}{2 \sin^3 t \sin p\pi} \quad \text{for } p^2 < 1, t \neq (2n+1)\pi$$