

FORMULA 3.261.2

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