## FORMULA 3.269.3

$$\int_0^1 \frac{x^{\mu} - x^{\nu}}{1 - x^2} dx = \frac{1}{2} \psi \left( \frac{\nu + 1}{2} \right) - \frac{1}{2} \psi \left( \frac{\mu + 1}{2} \right)$$