

FORMULA 3.411.28

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