

FORMULA 3.252.1

$$\int_0^{\infty} \frac{dx}{(ax^2 + 2bx + c)^n} = \frac{(-1)^{n-1}}{(n-1)!} \frac{\partial^{n-1}}{\partial c^{n-1}} \left[\frac{\text{ArcCot} \left(\frac{b}{\sqrt{ac - b^2}} \right)}{\sqrt{ac - b^2}} \right]$$