

FORMULA 4.242.5

$$\int_b^a \frac{\ln x \, dx}{\sqrt{(a^2 - x^2)(x^2 - b^2)}} = \frac{1}{2a} \mathbf{K} \left(\frac{\sqrt{a^2 - b^2}}{a} \right) \ln ab \quad a > b > 0$$