

C4282

! For an efficient use of these tables, first read [HowTo.pdf](#).

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T3.51A. Integrands involving logarithm functions and algebraic functions on the interval $(0, \infty)$.

$$1. \int_0^\infty \frac{\ln x \, dx}{\sqrt{(a^2 + x^2)(x^2 + b^2)}} = \frac{1}{2a} \mathbf{K} \left(\frac{\sqrt{a^2 - b^2}}{a} \right) \ln ab, \quad a > b > 0.$$

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