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

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T2.64B. Integrands involving logarithm functions and rational functions on the intervals $(0, a)$ and (a, b) .

$$1. \int_0^a \frac{\ln x \, dx}{x^2 + a^2} = \frac{\pi \ln a}{4a} - \frac{\mathbf{G}}{a}, \quad a > 0.$$

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$$2. \int_a^b \frac{\ln x \, dx}{(x+a)(x+b)} = \frac{\ln ab}{2(b-a)} \ln \frac{(a+b)^2}{4ab}.$$

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