

C4282

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

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T2.64C. Integrands involving logarithm functions and rational functions on the interval $(0, e^{-2a})$, $a > 0$.

$$1. \int_0^{e^{-2a}} \frac{1}{x} \ln(1-x) dx = -e^{-a} \sum_{n=1}^{\infty} \frac{1}{n^2} e^{-(2n+1)a}.$$

$$2. \int_0^{e^{-2a}} \frac{1}{x} \ln(1+x) dx = -e^{-a} \sum_{n=1}^{\infty} \frac{(-1)^n}{n^2} e^{-(2n+1)a}.$$

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