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

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T2.36A. Integrands involving exponentials and rational functions of powers of $(a + b x)$ on the interval $(0, \ln 2)$.

1.
$$\int_0^{\ln 2} \frac{x \, dx}{1 - e^{-x}} = \frac{\pi^2}{12}.$$

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2.
$$\int_0^{\ln 2} \frac{x \, dx}{e^x + 2e^{-x} - 2} = \frac{\pi}{8} \ln 2.$$

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