

C4282

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

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T2.40A. Integrands involving exponentials, hyperbolic functions and powers of $(a + b x)$ on the interval $(0, 1)$.

$$1. \int_0^1 \frac{e^{-\beta x}}{x} \sinh \gamma x \, dx = \frac{1}{2} \left[\ln \frac{\beta + \gamma}{\beta - \gamma} \operatorname{Ei}(\gamma - \beta) - \operatorname{Ei}(-\gamma - \beta) \right], \quad \beta > \gamma.$$

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