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

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T3.30B. Integrands involving hyperbolic functions and algebraic functions on the interval $(1, \infty)$.

$$1. \int_1^{\infty} \frac{dx}{x \sinh ax} = -2 \sum_{k=0}^{\infty} \operatorname{Ei}[-(2k+1)a], \quad a > 0.$$

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$$2. \int_1^{\infty} \frac{dx}{x \cosh ax} = 2 \sum_{k=0}^{\infty} (-1)^{k+1} \operatorname{Ei}[-(2k+1)a], \quad a > 0.$$

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