

C4282

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

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**T3.22A.** Integrands involving exponentials of trigonometric functions and  $\ln x$  on the interval  $(0, \infty)$ .

$$1. \int_0^\infty \exp[-a(x - \beta \sin x)] dx = \frac{1}{a} + 2 \sum_{k=1}^{\infty} \frac{a J_k(k\beta)}{a^2 + k^2}, \quad \Re\{a\} > 0.$$

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