

C4282

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

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T3.65A. Integrands involving trigonometric, inverse trigonometric and $1/x$ on the interval $(0, \infty)$.

$$1. \int_0^\infty \arctan x \cos(px) \frac{dx}{x} = \int_0^\infty \arctan \frac{x}{p} \cos(px) \frac{dx}{x} = -\frac{\pi}{2} \operatorname{Ei}(-p), \quad \Re\{p\} > 0.$$

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