

C4282

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

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**T2.73A.** Integrands involving logarithms, trigonometric functions and rational functions on the interval  $(0, 1)$ .

$$1. \int_0^1 \ln(1-x^2) \cos(p \ln x) \frac{dx}{x} = \frac{1}{2p^2} + \frac{\pi}{2p} \coth \frac{p\pi}{2}.$$

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$$2. \int_0^1 \frac{(1+x)x}{\ln x} \sin(\ln x) dx = \frac{\pi}{4}.$$

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