

C4282

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

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T2.45G. Integrands involving powers of linear trigonometric functions on the interval (a, b) .

$$1. \int_a^b \frac{(\cos a - \cos x)^{\mu-1}}{(\cos x - \cos b)^\mu} \frac{\sin x \, dx}{1 - 2c \cos x + c^2} = \frac{(1 - 2c \cos a + c^2)^{\mu-1}}{(1 - 2c \cos b + c^2)^\mu} \frac{\pi}{\sin \mu \pi},$$

$$0 < \Re\{\mu\} < 1, \, c^2 < 1.$$

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