

C4282

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

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**T2.46D.** Integrands involving square roots of expressions containing trigonometric functions on the interval  $(y, \pi)$ .

$$1. \int_y^\pi \frac{\sin\left(n + \frac{1}{2}\right) x \, dx}{\sqrt{2(\cos y - \cos x)}} = \frac{\pi}{2} P_n(\cos y).$$

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