

C4282

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

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**T2.54D.** Integrands involving powers of trigonometric functions and powers of  $(a + b x^n)$  for  $n = 1, 2, 3, 4$ , on the interval  $(p\pi, q\pi)$ .

$$1. \int_{p\pi}^{q\pi} x \cos^{2m} x \, dx = \frac{\pi^2}{2} (q^2 - p^2) \frac{(2m-1)!!}{(2m)!!}.$$

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