

C4282

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

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**T2.57A.** Integrands involving product of exponentials and trigonometric functions of linear and quadratic arguments on the interval  $(0, \pi/4)$ .

1. 
$$\int_0^{\pi/4} \prod_{n=1}^{\infty} \exp \left[ -\frac{1}{n} \tan^{2n} x \right] dx = \frac{\pi}{2} - 1.$$

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