

C4282

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

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T2.75B. Integrands involving arcsin, arccos and rational functions on the interval $(-1, 1)$.

$$1. \int_{-1}^1 (1-x^2)^n \arccos x \, dx = \pi \frac{2^n n!}{(2n+1)!!}.$$

$$2. \int_{-1}^1 (1-x^2)^{n-1/2} \arccos x \, dx = \frac{\pi^2}{2} \frac{(2n-1)!!}{2^n n!}.$$

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