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

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T2.03B. Powers of x , binomials of the form $(a + bx)$ and polynomials in x on the interval $(-1, 1)$.

$$1. \int_{-1}^1 \frac{(1-x^2)^n dx}{(a-x)^{n+1}} = 2^{n+1} Q_n(a).$$

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$$2. \int_{-1}^1 \frac{(1+x)^{2\mu-1} (1-x)^{2\nu-1}}{(1+x^2)^{\mu+\nu}} dx = 2^{\mu+\nu-2} B(\mu, \nu), \quad \operatorname{Re}\{\mu\} > 0, \operatorname{Re}\{\nu\} > 0.$$

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