

C4282

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

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**T2.35C.** Integrands involving exponentials and arbitrary powers of  $(a + bx)$  on the intervals  $(a, b)$ .

$$\begin{aligned}
 1. \int_a^b (x-a)^{2\mu-1} (b-x)^{2\nu-1} e^{-px} dx \\
 = B(2\mu, 2\nu) (b-a)^{\mu+\nu-1} p^{-\mu-\nu} \exp\left(\frac{-p(a+b)}{2}\right) M_{\mu-\nu, \mu+\nu-1/2}(bp-ap), \\
 b > a > 0, \Re\{\mu\} > 0, \Re\{\nu\} > 0.
 \end{aligned}$$

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