

C4282

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

C4282

T3.25C. Integrands involving exponentials and algebraic functions on the interval (y, ∞) .

$$1. \int_y^\infty \frac{\sqrt{x-y}}{x} e^{-\mu x} dx = \sqrt{\frac{\pi}{\mu}} e^{-y\mu} - \pi\sqrt{y} [1 - \operatorname{erf}(\sqrt{y\mu})], \quad y > 0, \Re\{\mu\} > 0.$$

$$2. \int_y^\infty \frac{e^{-\mu x} dx}{x\sqrt{x-y}} = \frac{\pi}{\sqrt{y}} [1 - \operatorname{erf}(\sqrt{y\mu})], \quad y > 0, \Re\{\mu\} \geq 0.$$

$$3. \int_y^\infty \frac{xe^{-\mu x} dx}{\sqrt{x^2 - y^2}} = yK_1(y\mu), \quad y > 0, \Re\{\mu\} > 0.$$

C4282

C4282

C4282

C4282

C4282

C4282