! For an efficient use of these tables, first read `HowTo.pdf`.

T2.34A. Integrands involving exponentials and algebraic functions on the intervals $(0, y)$, $(0, 2y)$, $(0, 2)$ and $(-1, 1)$.

1. $\displaystyle\int_0^y \frac{e^{-qx}}{\sqrt{x}}dx = \sqrt{\frac{\pi}{q}}\,\mathrm{erf}(\sqrt{qy}), \quad q > 0.$

2. $\displaystyle\int_0^y \frac{xe^{-\mu x}\,dx}{\sqrt{y^2 - x^2}} = \frac{\pi y}{2}\,[\mathbf{L}_1(\mu y) - I_1(\mu y)] + y, \quad y > 0;\ \Re\{\mu\} > 0.$

3. $\displaystyle\int_0^{2y} \frac{(y - x)e^{-\mu x}\,dx}{\sqrt{2yx - x^2}} = \pi\, ye^{-y\mu}\, I_1(y\mu), \quad \Re\{\mu\} > 0.$

4. $\displaystyle\int_0^2 \frac{e^{-px}\,dx}{\sqrt{x(2 - x)}} = \pi\, e^{-p} I_0(p), \quad p > 0.$

5. $\displaystyle\int_{-1}^1 \frac{e^{2x}\,dx}{\sqrt{1 - x^2}} = \pi\, I_0(2).$
