-	[Integration]
ð	Integration by parts: integral of a product of
	$\int_{\alpha} u(x) v'(x) dx = \left[ u(x) v(x) \right]_{\alpha} - \int_{\alpha} u'(x) v(x) dx$
	$= u(b)v(b) - u(a)v(a) - \int_{a}^{b} u'(x) \cdot v(x) \cdot dx$
	$f_{X}(x) = \frac{1}{2} e^{-x/2} \qquad 0 \le x < \infty$ $\beta > 0$
	$\int_{0}^{\infty} 1xe^{-x/\lambda} dx$
=	$\frac{\chi}{\pi} \cdot e^{-\pi/\lambda} \left(-\lambda\right) \begin{vmatrix} \infty & \infty \\ -\lambda & -\lambda \end{vmatrix} = \frac{\pi}{\lambda} \cdot \left(-e^{-\pi/\lambda}\right) \cdot \chi$
5	$\left[-x.e^{-x/\lambda}\right]^{\infty} + \left(-\lambda\right)\left[e^{-x/\lambda}\right]^{\infty}$
_	$0 - 0 + (-\lambda)(0 - 1]$
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