

$$y(t) = e^{|t-1|}$$

$$\text{Laplace transform of } e^{|t|} = \int_{-\infty}^{\infty} e^{|t|} e^{-st} dt$$

$$= \int_0^{\infty} e^t e^{-st} dt - \int_{-\infty}^0 e^{-t} e^{-st} dt$$

$$= \int_0^{\infty} e^{-(s-1)t} dt - \int_{-\infty}^0 e^{(-s-1)t} dt$$

$$\text{Now, } \int_0^{\infty} e^{-(s-1)t} dt = \left[ -\frac{1}{s-1} [e^{-(s-1)t}] \right]_0^{\infty}$$

$$= \left[ -\frac{1}{s-1} [e^{-(s-1)t}] \right]_0^{\infty} = \frac{-1}{s-1}$$

$$\text{Now, } \int_{-\infty}^0 e^{(-s-1)t} dt = \left[ \frac{1}{-(s+1)} [e^{(-s-1)t}] \right]_{-\infty}^0$$

$$= \left[ -\frac{1}{s+1} [e^{(-s-1)t}] \right]_{-\infty}^0 = -\left( \frac{1}{s+1} \right)$$

$$\text{Laplace transform of } |t|e^{|t|} = \int_{-\infty}^{\infty} e^{|t|} e^{-st} dt = -\left[ \frac{1}{s-1} + \frac{1}{s+1} \right] = -\left[ \frac{2s}{s^2-1} \right]$$

$$\text{Laplace transform of } |t|e^{|t-1|} = \int_{-\infty}^{\infty} e^{|t-1|} e^{-st} dt = \frac{2s}{1-s^2} e^{-s}$$

# Laplace Transform Questions And Answers

**Victor M. Corman**



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