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$$F(s) = \int_0^{\infty} e^{-st} f(t) dt$$
, then  $F(s)$  is called the Laplace Transform of  $f(t)$ , and will be denoted by  $\mathcal{L}\{f(t)\}$ . Notice the integrator  $e^{-st} dt$  where  $s$  is a parameter which may be real or complex.

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