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by  $\mathcal{L}\{F(t)\}$ , is defined by  
 $\mathcal{L}\{F(t)\} = \int_0^{\infty} f(t) e^{-st} dt$

$\int_0^{\infty} f(t) e^{-st} dt$  (1) 0 where we assume  
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is  $1/s$ . LAPLACE TRANSFORMS OF SOME ELEMENTARY FUNCTIONS The adjacent table shows Laplace transforms of ... TRANSFORMS In this section we introduce the concept of Laplace transform and discuss some of its properties. The Laplace transform is defined in the following way. Let  $f(t)$  be defined for  $t \geq 0$ : Then the Laplace transform of  $f$ ; which is denoted by  $L[f(t)]$  or by  $F(s)$ , is defined by the following equation  $L[f(t)] = F(s) = \int_0^{\infty} e^{-st} f(t) dt$

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