Operational Properties

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- If $\mathcal{L}\{f(t)\} = F(s)$ and a is any real number, then:

$$\mathcal{L}\{e^{at} f(t)\} = F(s - a) \tag{1}$$

- This theorem works both ways, as:

$$e^{at} f(t) = \mathcal{L}^{-1}\{F(s - a)\} \tag{2}$$