

$f(t)$	$F(s) = \mathcal{L}[f(t)]$		Formula
$f(t) = 1$	$F(s) = \frac{1}{s}$	$s > 0$	<b>A</b>
$f(t) = e^{at}$	$F(s) = \frac{1}{(s - a)}$	$s > a$	<b>B</b>
$f(t) = t^n$	$F(s) = \frac{n!}{s^{(n+1)}}$	$s > 0$	<b>C</b>
$f(t) = \sin(at)$	$F(s) = \frac{a}{s^2 + a^2}$	$s > 0$	<b>D</b>
$f(t) = \cos(at)$	$F(s) = \frac{s}{s^2 + a^2}$	$s > 0$	<b>E</b>
$f(t) = \sinh(at)$	$F(s) = \frac{a}{s^2 - a^2}$	$s >  a $	<b>F</b>
$f(t) = \cosh(at)$	$F(s) = \frac{s}{s^2 - a^2}$	$s >  a $	<b>G</b>
$f(t) = t^n e^{at}$	$F(s) = \frac{n!}{(s - a)^{(n+1)}}$	$s > a$	<b>H</b>
$f(t) = e^{at} \sin(bt)$	$F(s) = \frac{b}{(s - a)^2 + b^2}$	$s > a$	<b>I</b>
$f(t) = e^{at} \cos(bt)$	$F(s) = \frac{(s - a)}{(s - a)^2 + b^2}$	$s > a$	<b>J</b>
$f(t) = e^{at} \sinh(bt)$	$F(s) = \frac{b}{(s - a)^2 - b^2}$	$s - a >  b $	<b>K</b>
$f(t) = e^{at} \cosh(bt)$	$F(s) = \frac{(s - a)}{(s - a)^2 - b^2}$	$s - a >  b $	<b>L</b>

# Laplace Transforms

**Albert A Gayle**



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