

<code>&gt; restart</code>		
<code>&gt; with(inttrans)</code>		
<code>[addtable, fourier, fouriercos, fouriersin, hankel, hilbert, invfourier, invhilbert, invlaplace, invmellin, laplace, mellin, savetable]</code>		(1)
<code>&gt; f := 1</code>	$f := 1$	(2)
<code>&gt; F := laplace(f, t, s)</code>	$F := \frac{1}{s}$	(3)
<code>&gt; g := t</code>	$g := t$	(4)
<code>&gt; G := laplace(g, t, s)</code>	$G := \frac{1}{s^2}$	(5)
<code>&gt; h := t·2</code>	$h := t^2$	(6)
<code>&gt; H := laplace(h, t, s)</code>	$H := \frac{2}{s^3}$	(7)
<code>&gt; i := t·3</code>	$i := t^3$	(8)
<code>&gt; II := laplace(i, t, s)</code>	$II := \frac{6}{s^4}$	(9)
<code>&gt; restart</code>		
<code>&gt; with(inttrans) :</code>		
<code>&gt; F := <math>\frac{4}{s·2 + 16}</math></code>	$F := \frac{4}{s^2 + 16}$	(10)
<code>&gt; f := invlaplace(F, s, t)</code>	$f := \sin(4 t)$	(11)
<code>&gt; Ecua := diff(y(t), t\$2) - 5·diff(y(t), t) + 6·y(t) = 0</code>	$Ecua := \frac{d^2}{dt^2} y(t) - 5 \left( \frac{d}{dt} y(t) \right) + 6 y(t) = 0$	(12)
<code>&gt; Cond := y(0) = 2, D(y) (0) = -3</code>	$Cond := y(0) = 2, D(y) (0) = -3$	(13)
<code>&gt; EcuaLap := subs(Cond, laplace(Ecua, t, s))</code>		
<code><math>EcuaLap := s^2 laplace(y(t), t, s) + 13 - 2 s - 5 s laplace(y(t), t, s) + 6 laplace(y(t), t, s) = 0</math></code>		(14)
<code>&gt; SolLap := isolate(EcuaLap, laplace(y(t), t, s))</code>	$SolLap := laplace(y(t), t, s) = \frac{2 s - 13}{s^2 - 5 s + 6}$	(15)

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*Solpart* := invlaplace(*SolLap*, *s*, *t*)

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*Solpart* :=  $y(t) = 9 e^{2t} - 7 e^{3t}$

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(16)