> restart

> $EcuaUno := \dfrac{d}{dx} y(x) + y(x) \cdot \cos(x) = \sin(x) \cdot \cos(x)$

$$EcuaUno := \dfrac{d\,y(x)}{dx} + y(x)\cos(x) = \sin(x)\cos(x) \tag{1}$$

> $EcuaDos := diff(y(x), x) + y(x) \cdot \cos(x) = \sin(x) \cdot \cos(x)$

$$EcuaDos := \dfrac{d}{dx}\,y(x) + y(x)\cos(x) = \sin(x)\cos(x) \tag{2}$$

> $SolUno := dsolve(EcuaUno)$

Error, (in dsolve) expecting an ODE or a set or list of ODEs.
Received d*y(x)/dx+y(x)*cos(x) = sin(x)*cos(x)

> $SolDos := dsolve(EcuaDos)$

$$SolDos := y(x) = \sin(x) - 1 + e^{-\sin(x)}\,\_C1 \tag{3}$$

> $EcuaTres := y' + y \cdot \cos(x) = \sin(x) \cdot \cos(x)$

$$EcuaTres := \dfrac{d}{dx}\,y(x) + y(x)\cos(x) = \sin(x)\cos(x) \tag{4}$$

> $SolTres := dsolve(EcuaTres)$

$$SolTres := y(x) = \sin(x) - 1 + e^{-\sin(x)}\,\_C1 \tag{5}$$

> restart

> $P := \dfrac{u \cdot (u^2 - u + 1)}{u + 8}$

$$P := \dfrac{u\,(u^2 - u + 1)}{u + 8} \tag{6}$$

> restart

> with(inttrans)

$$[addtable, fourier, fouriercos, fouriersin, hankel, hilbert, invfourier, invhilbert, invlaplace, \tag{7}$$
$$invmellin, mellin, savetable]$$

> $f := 1$

$$f := 1 \tag{8}$$

> $F := laplace(f, t, s)$

$$F := \dfrac{1}{s} \tag{9}$$

> $g := \exp(5 \cdot t)$

$$g := e^{5\,t} \tag{10}$$

> $G := laplace(g, t, s)$

$$G := \dfrac{1}{s - 5} \tag{11}$$

> $h := t$

$$h := t \tag{12}$$

> $H := laplace(h, t, s)$

$$H := \dfrac{1}{s^2} \tag{13}$$

> $j := t^2$

(14)

$$j := t^2 \tag{14}$$

> $J := laplace(j, t, s)$

$$J := \frac{2}{s^3} \tag{15}$$

> $k := t^3$

$$k := t^3 \tag{16}$$

> $K := laplace(k, t, s)$

$$K := \frac{6}{s^4} \tag{17}$$

> $r := t \cdot \exp(a \cdot t)$

$$r := t\, e^{at} \tag{18}$$

> $R := laplace(r, t, s)$

$$R := \frac{1}{(s-a)^2} \tag{19}$$

>