> *restart*

> *Ecuacion := diff (y(x), x) = 0*

$$Ecuacion := \frac{\mathrm{d}}{\mathrm{d}x}\, y(x) = 0 \tag{1}$$

> *Solucion := dsolve(Ecuacion)*

$$Solucion := y(x) = \_C1 \tag{2}$$

> *Comprobar := eval(subs(y(x) = rhs(Solucion), Ecuacion))*

$$Comprobar := 0 = 0 \tag{3}$$

> *EcuacionDos := y" - 3 y' + 6 y = 0*

$$EcuacionDos := \frac{\mathrm{d}^2}{\mathrm{d}x^2}\, y(x) - 3\left(\frac{\mathrm{d}}{\mathrm{d}x}\, y(x)\right) + 6\, y(x) = 0 \tag{4}$$

> *SolucionDos := dsolve(EcuacionDos)*

$$SolucionDos := y(x) = \_C1\, e^{\frac{3}{2}x} \sin\left(\frac{1}{2}\sqrt{15}\, x\right) + \_C2\, e^{\frac{3}{2}x} \cos\left(\frac{1}{2}\sqrt{15}\, x\right) \tag{5}$$

> *evalf (%, 2)*

$$y(x) = \_C1\, e^{1.5\,x} \sin(1.9\, x) + \_C2\, e^{1.5\,x} \cos(1.9\, x) \tag{6}$$

>
>