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[>
[> restart
[> EcuacionDiferencial := diff(y(x), x) = 0
      EcuacionDiferencial :=  $\frac{d}{dx} y(x) = 0$  (1)
[> Solucion := dsolve(EcuacionDiferencial)
      Solucion :=  $y(x) = c_1$  (2)
[> Comprobacion := eval(subs(y(x) = rhs(Solucion), EcuacionDiferencial))
      Comprobacion :=  $0 = 0$  (3)
[> restart
[> Ecuacion := diff(y(x), x) = y(x)
      Ecuacion :=  $\frac{d}{dx} y(x) = y(x)$  (4)
[> Solucion := dsolve(Ecuacion)
      Solucion :=  $y(x) = c_1 e^x$  (5)
[> Comprobacion := eval(subs(y(x) = rhs(Solucion), Ecuacion))
      Comprobacion :=  $c_1 e^x = c_1 e^x$  (6)
[> restart
[> EcuaDif := diff(y(x), x$3) = 2·x2
      EcuaDif :=  $\frac{d^3}{dx^3} y(x) = 2 x^2$  (7)
[> SolGral := dsolve(EcuaDif)
      SolGral :=  $y(x) = \frac{1}{30} x^5 + \frac{1}{2} c_1 x^2 + c_2 x + c_3$  (8)
[>

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