

```

> restart
> Sistema := -A=4, 6·E=-1, 6·D-10·E=0, 6·B-5·D+2·E=0
      Sistema := -A=4, 6 E=-1, 6 D-10 E=0, 6 B-5 D+2 E=0 (1)
> Sistema[1]
      -A=4 (2)
> Sistema[2]
      6 E=-1 (3)
> Sistema[3]
      6 D-10 E=0 (4)
> Sistema[4]
      6 B-5 D+2 E=0 (5)
> Para := solve( {Sistema}, {A, B, D, E})
      Para := {A=-4, B=-19/108, D=-5/18, E=-1/6} (6)
> Ecua := y''-5·y'+6·y=4·exp(2 x)-x^2
      Ecua := d^2/dx^2 y(x) - 5 d/dx y(x) + 6 y(x) = 4 e^{2x} - x^2 (7)
> SolGral := y(x)=C[1]·exp(3·x)+C[2]·exp(2 x)+A·x·exp(2·x)+B+D·x+E·x^2
      SolGral := y(x)=C_1 e^{3x} + C_2 e^{2x} + A x e^{2x} + B + D x + E x^2 (8)
> SolFinal := subs(A=rhs(Para[1]), B=rhs(Para[2]), D=rhs(Para[3]), E=rhs(Para[4]),
      SolGral)
      SolFinal := y(x)=C_1 e^{3x} + C_2 e^{2x} - 4 x e^{2x} - 19/108 - 5x/18 - x^2/6 (9)
> Comprobar := simplify(eval(subs(y(x)=rhs(SolFinal), lhs(Ecua)-rhs(Ecua)=0)))
      Comprobar := 0=0 (10)
>

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