

```

> restart
> Ecua := (3·x2·y + 8·x·y2 - 6·y3) + (x3 + 8·x2·y - 18·x·y2)·y' = 0
  Ecua := 3 x2 y(x) + 8 x y(x)2 - 6 y(x)3 + (x3 + 8 x2 y(x) - 18 x y(x)2) ( d/dx y(x) ) = 0 (1)
=
> M := 3 x2 y + 8 x y2 - 6 y3
  M := 3 x2 y + 8 x y2 - 6 y3 (2)
=
> N := x3 + 8 x2 y - 18 x y2
  N := x3 + 8 x2 y - 18 x y2 (3)
=
> IntMx := int(M, x)
  IntMx := x3 y + 4 x2 y2 - 6 x y3 (4)
=
> SolGral := IntMx + int( (N - diff(IntMx, y)), y) = _C1
  SolGral := x3 y + 4 x2 y2 - 6 x y3 = _C1 (5)
=
> IntNy := int(N, y)
  IntNy := x3 y + 4 x2 y2 - 6 x y3 (6)
=
> SolGralDos := IntNy + int( (M - diff(IntNy, x)), x) = _C1
  SolGralDos := x3 y + 4 x2 y2 - 6 x y3 = _C1 (7)
=
> SolGralFinal := x3 y(x) + 4 x2 y(x)2 - 6 x y(x)3 = _C1
  SolGralFinal := x3 y(x) + 4 x2 y(x)2 - 6 x y(x)3 = _C1 (8)
=
> DerSolGral := isolate(diff(SolGralFinal, x), diff(y(x), x))
  DerSolGral := d/dx y(x) = (-3 x2 y(x) - 8 x y(x)2 + 6 y(x)3) / (x3 + 8 x2 y(x) - 18 x y(x)2) (9)
=
> DerEcua := isolate(Ecua, diff(y(x), x))
  DerEcua := d/dx y(x) = (-3 x2 y(x) - 8 x y(x)2 + 6 y(x)3) / (x3 + 8 x2 y(x) - 18 x y(x)2) (10)
=
> Comprobar := rhs(DerSolGral) - rhs(DerEcua) = 0
  Comprobar := 0 = 0 (11)
=
>
=
>
=
>
=
>

```