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[> restart
[
> Ecuacion := diff(y(x), x) -  $\frac{y(x)}{x \cdot 2} = 0$ 
                                 $Ecuacion := \frac{d}{dx} y(x) - \frac{y(x)}{x^2} = 0$  (1)
[
> p(x) := - $\frac{1}{x \cdot 2}$ ;
                                 $p(x) := -\frac{1}{x^2}$  (2)
[
> IpNeg := -int(p(x), x)
                                 $IpNeg := -\frac{1}{x}$  (3)
[
> SolucionGeneral := y(x) = C1·exp(IpNeg)
                                 $SolucionGeneral := y(x) = C1 e^{-\frac{1}{x}}$  (4)
[
> comprobacion := simplify(eval(subs(y(x) = rhs(SolucionGeneral), Ecuacion)))
                                 $comprobacion := 0 = 0$  (5)
[
> SolGral := dsolve(Ecuacion)
                                 $SolGral := y(x) = \_C1 e^{-\frac{1}{x}}$  (6)
[
>
[
>
[
>

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