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[> restart
[> Ecuacion := diff(y(x), x) +  $\frac{y(x)}{x} = x \cdot \log(x)$ 
                                 $Ecuacion := \frac{d}{dx} y(x) + \frac{y(x)}{x} = x \ln(x)$  (1)
[> p :=  $\frac{1}{x}$ 
                                 $p := \frac{1}{x}$  (2)
[> q := x·log(x)
                                 $q := x \ln(x)$  (3)
[> Ip := int(p, x)
                                 $Ip := \ln(x)$  (4)
[> ExpIp := exp(Ip)
                                 $ExpIp := x$  (5)
[> ExpIpneg := exp(-Ip)
                                 $ExpIpneg := \frac{1}{x}$  (6)
[> Iq := int(ExpIp·q, x)
                                 $Iq := \frac{1}{3} x^3 \ln(x) - \frac{1}{9} x^3$  (7)
[> SolucionGeneral := y(x) = expand(C1·ExpIpneg + ExpIpneg·Iq)
                                 $SolucionGeneral := y(x) = \frac{C_1}{x} + \frac{1}{3} x^2 \ln(x) - \frac{1}{9} x^2$  (8)
[> SolGral := dsolve(Ecuacion)
                                 $SolGral := y(x) = \frac{CI}{x} + \frac{1}{9} x^2 (3 \ln(x) - 1)$  (9)
[>
[>
[>
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