Nayara Turezinha Nunes コッツーサーナシャンツーナーサンツーナーナンシャンナーナーサン herocenere => y'-4=-t2y-2 p(+)=-1 q(+=-t2 m=-2) FATOR INTEGRANTE

S(1-(-2))-\frac{1}{2}dt = \int 3-\frac{1}{2}dt = \int 3t-\frac{1}{2}dt = 3t-\frac{1}{2}t dt = 3t-\frac{1}{2}dt = 3t-\frac{1}{2}d $u(t) = e^{3t-lnt} = t^{-1}e^{3t} = \frac{e^{3t}}{t}$ y(t)= [u(t)(1-m)q(t)]dt+c $y(t) = \int \frac{e^{3t} \cdot 3 \cdot (t^2)}{t} dt + \int (-3te^{3t}) dt + C = \int \frac{e^{3t} \cdot 3 \cdot (t^2)}{t} dt + C = \int$ y(t)

$$\int (-3te^{3t})dt = -3\int te^{3t}dt = -3\int \frac{e^{3t}}{9}dt = -3 \cdot \frac{1}{9}(e^{3t}u - \int e^{3t}du) = -3 \cdot \frac{1}{9}(e^{3t}u - \int e^{3t}du - \int e^{3t}du = -3 \cdot \frac{1}{9}(e^{3t}u - \int e^{3t}du - \int e^{3t}du = -3 \cdot \frac{1}{9}(e^{3t}u - \int e^{3t}du - \int e^{3t}du = -3 \cdot \frac{1}{9}(e^{3t}u - \int e^{3t}du - \int e^{3t}du - \int e^{3t}du = -3 \cdot \frac{1}{9}(e^{3t}u - \int e^{3t}du - \int e^{3t}du - \int e^{3t}du - \int e^{3t}du = -3 \cdot \frac{1}{9}(e^{3t}u - \int e^{3t}du - \int e^{3$$

Mayara I. Nums EDO Buenoulli J (Db) y2+2t+2tyy=0 y'+p(x)y=q(x)yn Form GER

Mayoea Teegenha Nunes En (esy y costty)) dt + (2te^{2y} - tcos(ty) + 2y) dy = 0 EDO weata M(x,y) + N(x,y)y' = 0edy ycolty)+(2te2y-too ty)+2y) dut=0 ya weisel dependente $\Psi_{X(x,y)=M(x,y)=e^{2f_1(t)}} - f_1(t) cos_1(tf_1(1))$ Υy(x,y)=N(x,y)= 2te^{2f(t)} t co2 (tfi(t))+2fi(t)) CO QUITALEGOOD J Ψ(x,y) 1 Ψx(x,y)=m(x,y) & Ψy(x,y)=N(x,y) $\psi_{x} + \psi_{y} \cdot y' = \frac{d\psi_{(x,y)}}{dy} = 0 = 0 \quad \forall (x,y) = 0$ dM(x,y)= dN(x,y)=weolodies \frac{\delta(1)}{2\frac{1}{2}} = 2e^{2\frac{1}{2}(\frac{1}{2})} = (e^{2\frac{1}{2}(\frac{1}{2})}) - (\frac{1}{2}(\frac{1}{2})) \cdot (\frac{1}{2}(\frac{1}{2})) = e^{2\frac{1}{2}(\frac{1}{2})} - (\frac{1}{2}(\frac{1}{2})) - (\frac{1}{2}(\frac{1}{2})) = e^{2\frac{1}{2}(\frac{1}{2})} - (\frac{1}{2}(\frac{1}{2})) - (\frac{1}{2}(\frac{1})) - (\frac{1}{2}(\frac{1})) - (\frac{1}{2}(\frac{1})) - (\ $= \sqrt{2e^{2f\cdot(t)}-\cos(tf\cdot(t))+tf\cdot(t)}\sin(tf\cdot(t)) = \frac{\delta M}{\delta f\cdot(t)}$ $\frac{dN}{dt} = 2e^{2F_1(t)} \cos(tF_1(t)) + tF_1(t) \operatorname{sen}(tF_1(t))) = rF_1(t) \Rightarrow (2te^{2F_1(t)})^2 (top(tF_1(t))) + (2F_1(t))^2 (top(tF_$ > (2te 2f.(t))= 2e2f.(t) (2f.(t))=0 => 2e2f.(t)-(cos(f.(t))+)-f.(t)+cos(f.(t))+1) $\Rightarrow 2e^{2F_1(t)} - \cos(tF_1(t)) + tF_1(t) \operatorname{sen}(tF_1(t)) = \frac{\partial N}{\partial t}$ continua pert

 $Y(x_1y) = Y(t_1f_1) = f_1 - \text{sen}(tf_1) + te^{2f_1} + c_1$ $SNdf_1 = \int 2f_1df_1 - \int \cos(tf_1) tdf_1 + \int 2te^{2f_1} df_1$ $Y(t_1f_1) = f_1^2 - \text{sen}(tf_1) + te^{2f_1} + c_1$ $Y(t_1f_1) = f_1^2 - \text{sen}(tf_1) + te^{2f_1} + c_1$ $Y(t_1f_1) = f_1^2 - \text{sen}(tf_1) + te^{2f_1} + c_1$ $Y(t_1f_1) = f_1^2 - \text{sen}(tf_1) + te^{2f_1} + c_1$ $Y(t_1f_1) = f_1^2 - \text{sen}(tf_1) + te^{2f_1} + c_1$ $Y(t_1f_1) = f_1^2 - \text{sen}(tf_1) + te^{2f_1} + c_1$ $Y(t_1f_1) = f_1^2 - \text{sen}(tf_1) + te^{2f_1} + c_1$ $Y(t_1f_1) = f_1^2 - \text{sen}(tf_1) + te^{2f_1} + c_1$ $Y(t_1f_1) = f_1^2 - \text{sen}(tf_1) + te^{2f_1} + c_1$ 1 c2 = 4(+,fi) Combinar or constantes (F1-sen(tf1)+te2f1=C1 Fi-sen(+Fi)+te2fi=c2

Noujoea Tereginha Mines

Mayora Terenjinha Nunus E Dou segunda Olden not homogènea de EULER 2) {2y"-3ty'+4y=t2lnt ax2y"+bxy'+cy=g(x) (tr)=tr-(r-1) t3"-3ty+4y=0=1 (y=t)=0 t2((t1))"-3t((t1))+4+=0 (tr)=rt1-1 七十十十十二0 Resolvere + [[2 4 - 4] 0 [=2] 0 = 1 b=-4 c=4

\[=2 \] \[=2 \] \[\tag{1 \tag{2}} \]

white \[\tag{2} \]

" any \[\tag{7} = 2 \]

multiple \[\tag{2} \] t7t[-1)-3trt-+4tr=0 rat-4itf+4t=0 - FL(L3-AL+AFO y=c1t+c2ln(t)t=+c1t+c2ln(+)t2 y; = 2t yp: t 2y"-3ty+4y=t2ln(t) y'2=2+ln(+)+t Wly, y2)=+2(2tln(+)++)-2++2ln(+) Wly 1142) = t3 yp= V1 y1+U2 y2 $v_1 = \int -\frac{t^2 \ln(t) \ln(t)}{t^3} dt = \int \frac{y_2 g(t)}{w(y_1, y_2)} dt$ $U_1 = -\frac{\ln^2 + 1(t)}{2 + 1} = -\frac{1}{3} \ln^3(t) + C$ y p=(-1 lm3(+))+2 1 lm2(+)+3 lm(+) U2 = \frac{t^2(n)t)}{t^3} dt = \frac{1}{2} ln^2(t) geral y=yh+yp y=\frac{1}{6}t^2 ln^3(t) poolugad y=c1t^2+c2ln(t)t^2+\frac{1}{6}t^2 ln^3(t)