2012-0DE- IFOS

Solve 
$$\frac{dy}{dx} - \frac{y_{any}}{y_{any}} = (j+n)e^{x} \sec y$$

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Cosy  $\frac{dy}{dx} - \frac{dy}{dx} = \frac{dy}{dx}$ 

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The solve  $\frac{dy}{dx} = \frac{dy}{dx}$ 

Solve

m2 + 2m + 1 = = (m+1)2 = 0

C. F., 
$$\frac{1}{4c} = (c_1 + c_2 z) e^{-z} = (c_1 + c_2 \log n) - \frac{1}{2c}$$
 $\frac{1}{4p} = \frac{1}{(p_1 + 1)^2} (1 - n)^{-2}$ 
 $\frac{1}{4p} = \frac{1}{(p_1 + 1)^2} (1 - n)^{$ 

$$\frac{1}{(1-\rho^{2})^{1/2}} = -2 \left( \frac{\rho^{2}}{(1-\rho^{2})^{1/2}} d^{\rho} + C \right) \\
= +2 \left[ \int \frac{(1-\rho^{2})^{1/2}}{(1-\rho^{2})^{1/2}} d^{\rho} - \int \frac{1}{(1-\rho^{2})^{1/2}} d^{\rho} \right] \\
= 2 \left[ \int \frac{\rho^{2}}{\rho^{2}} \sqrt{1-\rho^{2}} d^{\rho} - \int \frac{1}{(1-\rho^{2})^{1/2}} d^{\rho} \right] \\
= \rho (1-\rho^{2})^{1/2} + \sin^{2}\rho - 2\sin^{2}\rho + C \\
= \rho (1-\rho^{2})^{1/2} - \sin^{2}\rho + C \\
= \rho (1-\rho^{2})^{1/2} - \cos^{2}\rho + C \\
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= \rho (1-\rho^{2})^{1/2} - \cos^{2}\rho + C \\
= \rho (1-\rho^{2})^{1/2} - \rho^{2} \\
= \rho$$

R.P. of 
$$e^{i\eta} \frac{1}{-4n^{2}}(1+\frac{n}{2i})^{2}$$

$$\Rightarrow e^{i\eta} \frac{1}{-4n^{2}}(1-\frac{ni}{2i})^{2}n^{2}$$

$$\Rightarrow \frac{e^{i\eta}}{-4n^{2}}(1-\frac{ni}{2i})^{2}n^{2}$$

$$\Rightarrow \frac{e^{i\eta}}{-4n^{2}}(1+\frac{ni}{2})^{2}n^{2}$$

$$\Rightarrow \frac{e^{i\eta}}{-4n^{2}}[1+n^{2}] \frac{3}{4}n^{2}$$

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$$\Rightarrow \frac{e^{i\eta}}{-4n^{2}}[n^{2}] \frac{n^{2}}{n^{2}} + \frac{n^{3}}{3} - \frac{3}{4}n^{2}$$

R.O. of  $\frac{1}{4}(c_{2}n+i_{3}n_{3}n_{3})(\frac{n^{4}}{12}+\frac{n^{3}}{3}-\frac{3}{4}n_{3}n_{3})$ 

$$= -\frac{1}{4}[\frac{n^{4}}{12}-\frac{3}{4}n_{3}n_{3}n_{3}n_{3}n_{3}]$$

$$\forall = (c_{1}+c_{2}n_{3})(con+(c_{3}+c_{4}n_{3})sin_{3}n_{3}-\frac{1}{4}[\frac{n^{4}}{12}-\frac{3}{4}n_{3}n_{3}n_{3}n_{3}]$$

$$y = (c_1 + c_2 \pi) cosn + (c_3 + c_4 \pi) sinn - \frac{1}{4} \left[ \left( \frac{\pi^4}{12} - \frac{3\pi^2}{4} \right) cos \pi - \frac{\pi^3}{3} sinn \right]$$

Solver 
$$2^2y \frac{d^2y}{dn^2} + \left(\frac{2dy}{4n} - y\right)^2 = 0$$

Solver  $2^2y \frac{d^2y}{dn^2} + n^2 \frac{d^2y}{dn} + y^2 = 0$ 

$$2^2 \left[ y \frac{d^2y}{dn^2} + \left(\frac{d^2y}{dn}\right)^2 - \left[ 2ny \frac{dy}{dn} + y^2 \right] = 0$$

$$\left[ y \frac{d^2y}{dn^2} + \left(\frac{dy}{dn}\right)^2 \right] - \left[ 2ny \frac{dy}{dn} - y^2 \right] = 0$$

$$\left[ y \frac{d^2y}{dn^2} + \left(\frac{dy}{dn}\right)^2 \right] - \left[ 2ny \frac{dy}{dn} - y^2 \right] = 0$$

$$\frac{d}{dn} \left( y \frac{dy}{dn} \right) - \frac{d}{dn} \left( \frac{y^2}{n} \right) = 0$$

$$\left[ x \frac{dy}{dn} - \frac{y^2}{n^2} = 0 \right]$$

$$\frac{1}{2} \frac{dv}{dn} - \frac{v}{n} = C$$

$$\frac{dv}{dn} - \frac{2v}{n} = 2C$$

$$\frac{1}{2} \cdot F \cdot \frac{1}{2} = \frac{-2\log n}{n^2} = \frac{1}{n^2}$$

$$\frac{1}{2} \cdot \frac{1}{2} = \frac{1}{2} \cdot \frac{1}{2} \cdot$$

Solve and find the singular solution of 
$$x^3 p^2 + x^2 py + a^3 = 0$$

$$y = -xp - \frac{a^3}{n^2 p}$$

Diff: w. n.t. n.

$$\frac{dy}{dn} = -P - \pi \frac{dp}{dn} - a^3 \left( \frac{-2}{n^3 p} - \frac{1}{n^2 p^2} \frac{dp}{dn} \right)$$

$$\frac{dq}{dn} = -P$$

$$\Rightarrow 2P + \pi \frac{dP}{dn} \Rightarrow -\frac{2a^3}{\mu^3 P} - \frac{a^3}{\pi^2 P^2} \frac{dP}{dn} = 0$$

$$\int \frac{2\pi}{2} + \frac{2\pi d\rho}{4\pi} = 0$$

$$\int \frac{2\rho}{1 - \frac{a^3}{n^3 \rho^2}} + \frac{d\rho}{dn} \left(1 - \frac{a^3}{n^3 \rho^2}\right) = 0$$

$$\left(1 - \frac{a^3}{n^3 \rho^2}\right) \left(2\rho + n \frac{d\rho}{dn}\right) = 0$$

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$$\left(1-\frac{a^{2}}{\pi^{3}P^{2}}\right)\left(2P+\pi\frac{dP}{dn}\right)=0$$

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$$2P+\pi\frac{dP}{dn}=0$$

$$\frac{1}{P}dP+\frac{2}{\pi}dn=0$$

$$P = \frac{C}{\pi^2}$$

$$\frac{C^4}{\pi^4} + \pi^2 \psi \left(\frac{C}{\pi^2}\right) + a^2 = 0$$

$$\frac{C^2}{\pi} + c\psi + a^3 = 0$$

$$\frac{C^2}{\pi} + \gamma \psi + a^3 \pi = 0$$

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