$$l_n(v) = 1.50 l_n(c+x) = 0 l_n(y') = 1.50 l_n(c+x) = 0 y' = (700)^3/2$$

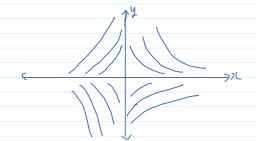
$$\int dy = \int (x^{3/2} c_{\bullet}^{3/2}) dn = y = \left(\frac{5}{2} c^{3/2} \right) 1c^{5/2} + c_{1}$$

$$y'' + (\frac{2}{2})y' + y = 0$$

$$y'' + (\frac{2}{2})y' + y = 0$$
 $\int du = \frac{2}{2} = P(\lambda), g(\lambda) = 1$

$$y_2 = \left[\int \frac{1}{y_1^2} e^{-\int P(y_1) dy_1} dy_1 \right] y_1 \rightarrow y_2 = \left[\frac{2c^2}{c\sigma^2} e^{-\int \frac{2}{y_1} dy_1} dy_1 \right] \times \frac{C\sigma M}{2c}$$

(i) y= C

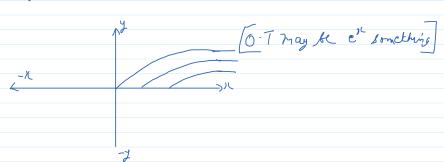


$$y' = -\frac{2C}{2L^3}$$
 10 y_0

$$y' = -\frac{2C}{\pi^2}$$

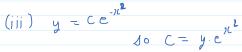
$$\int O \quad y'(\partial T) = \frac{\chi^2}{2C} \left[\text{ or know } y = \frac{C}{\pi^2} \Rightarrow C = \frac{1}{2} \chi^2 \right] \text{ pulting trained } C$$

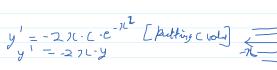
(ii) y= J 2+ C

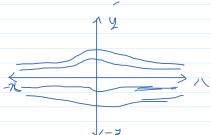


$$y' = \frac{1}{2\sqrt{21+C}} = \frac{1}{2y}$$

Now y'at) = -2y D dy = -2 Sdn D by = -2x+C y = ce - 211







Now
$$y'(\omega,T) = 1$$

$$= \sum_{\substack{X \in Y \\ X \neq Y}} y'(\omega,T) = \sum_{\substack{X \in$$

$$(2)_{6}(x^{2}-1)y^{1}=(2)(-1)y$$

$$A.T.0$$
 [B' has no solⁿ Hars y' is discontinuous] $Babo y \neq 0$

$$y' = \left(\frac{2N-1}{x^2-N}\right) y$$

$$\int (ut \chi^2 -)(-u - u - 2)(-1 - \frac{d_1}{d_2})$$

$$\frac{dy}{y} = \frac{dy}{u} = \frac{dy}{u} = \ln(y) + \ln(y)$$

$$\frac{y - C \cdot u}{y} = C \cdot (x^2 - x)$$

for 1 = 0,1 Ut can be 40=0 always - infinite many sol for 20 70,1 IX con Su that it has unique soly [because 21-11 =0] for y to pand to -0,1 it has no soly

$$(94)$$
 to (9) + (9) + (9) + (9) + (9) = (9) + (9) = (9) + (9) = (9) + $(9$

Now

 $y'_{2} - e^{-0.31} = 0.32(e^{-0.37}) + 0.09e^{-0.37} + 0.09e^{-0.37} = 0.3e^{-0.37} + 0.09e^{-0.37} = 0.3e^{-0.37} + 0.09e^{-0.37} + 0.09e^{-0.37} = 0.3e^{-0.37} + 0.09e^{-0.37} + 0.09e^{-0.37} = 0.18 \text{ Mera phove}$ $= 0 \quad \text{Mera phove}$

por 0 29 it is verified that y, y, are basis of fine