(pt session)

JZB Sink, A, $\cos x + A_2 \sin x$, f goneral y'' + y = 0 Solution. 2) Cosa AB) Sinx pasticular

y 4 4 = 0 Solution

Formation of a Differential eq y=(2)2-(i) y'=26x $C = \frac{g'}{2x}$ Using value of o in Eq. (1) $y = \left(\frac{y}{2x}\right) x^{2}$ $= \frac{1}{4} \frac{\chi y}{2} \left| \frac{1}{2} \frac{\chi y}{2} \right|$ $\sqrt{2y = x + y}$

[4= xy] J= mit

 $\chi^2 + y^2 = \alpha e^2$ (χ^n) $2x + 2y \cdot y' = 0$ $\beta \left(x + yy \right) = 0$ 2-1, 2-1, 12+44=0 Yz C, CBSX+C2 Sinx $y = -C_1 \sin x + C_2 \cos x - 2$ $y'' = -C_1 \cos x + C_2 \sin x$ $y'' = -\left(C_1 \cos x + C_2 \sin x\right) - 3$ y = - y os/y + y zel

$$y = ax^{2} + bx + c - 0 = 0$$

$$y = 2ax + b$$

$$y = 2a + 0$$

$$y'' = 2a + 0$$

$$x^{2} + y^{2} = 2gx - 0$$

$$2x + 2y \cdot y' = 2g$$

$$x + yy' = 2g$$

$$x + yy' = g$$

$$x + yy' = g$$

$$x^{2} + y^{2} = 2x + 2x + yy'$$

$$x^{2} + y^{2} = 2x^{2} + 2x + 2x + yy'$$

$$x^{2} + y^{2} = 2x^{2} + 2x + 2x + 2y'$$

$$(2-a) + y^{2} = a^{2} - 0$$

$$(2-a) + y^{2} = a^{2} - 0$$

$$y(x-a) \cdot 1 \cdot + 2y \cdot y' = 0$$

$$x - a + yy' = 0$$

$$x + yy' = a - 2$$

$$x \cdot yy' = a - 2$$

$$x \cdot yy' = (x + yy')$$

$$(x - (x + yy')) + y' = (x + yy')$$

$$(x - (x + yy')) + y' = (x + yy')$$

$$y' + y' = (x + yy')$$