torsdag 5 januari 2023

$$\frac{\lambda = 0}{y = 0}$$

$$y = (C_1 \times + C_2) e^{\alpha} = C_1 \times + C_2$$

$$y' = C_1$$

$$y'(0) = C_1 = 0$$

$$y'(\lambda) = C_1 = 0$$

$$y = C_2 \neq y(x) \rightarrow har e \neq x \text{ dif } y \text{ in 15 hing } p \neq y \text{ som bino } e x \times x$$

$$\begin{aligned}
& \gamma = \pm \sqrt{-\lambda^2} \in \mathbb{R} \\
& y = \zeta_1 e^{-\lambda^2} \times + \zeta_2 e^{-\lambda^2} \times 2 e^{-\lambda^2} \times 2$$

Sv:
$$y = A \cos \frac{n\pi}{\ell} \times n = holtal > 0, \lambda = \frac{(n\pi)^2}{\ell^2}$$