MnS - Computer Practical - 4 Poulami Guosh

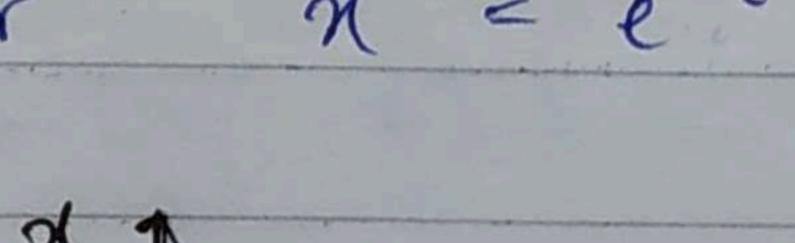
$$\frac{1(a)}{dx} = -x; \quad x_0 = 1$$

$$\frac{dt}{dt}$$

$$\frac{dx}{dx}$$

$$\frac{dx$$

or [
$$\ln \pi$$
] $\chi(t) = -[t]^t$



$$1(b) \dot{\alpha} = x^{-1}, \quad \alpha_{0} = 1$$
or $dx = x^{-1}$

$$dt \qquad \pi$$

$$x(t)$$

$$x(t$$

1(c) x = 1-x; no=0 or [- line (nota 1-x(+))] x(+) = [t] + or - ln (1-x) + ln (1-0) = t-0 [':/x(+)=x] or - lu (1-x) + 0 + = t-0 ln(1-n)=-t $1-n=e^{-t}$ $n=1-e^{-t}$

$$\frac{dN}{dt} = x(1-x); n_0 = \frac{1}{2}$$
or $\frac{dn}{dt} = x(1-x)$

$$\frac{dn}{x(1-n)} = \frac{1}{2}dt$$

$$\frac{dn}{x(1-n)} = \frac{1}{2$$

or
$$\ln \pi - \ln (1-\pi) = t$$

or $\ln \left(\frac{\pi}{1-\pi}\right) = t$

or $\ln \left(\frac{\pi}{1-\pi}\right) = t$

or $\ln \left(\frac{\pi}{1-\pi}\right) = e^{-t}$

