$\begin{array}{l} \text{(D-2)[A,e^{-2\gamma}+A_3e^{\alpha}+A_3e^{\alpha}]} + 3\left[8_1e^{-2\gamma}+B_3e^{\alpha}\right] - 3\left[\zeta_1e^{-6\gamma}+\zeta_2e^{\alpha}+\zeta_3e^{2\gamma}\right] = 0 \\ \text{(D-2)[A,e^{-2\gamma}+A_3e^{\alpha}+A_3e^{\alpha}]} + 3\left[-2A_1e^{-2\gamma}-2A_3e^{\alpha}-2A_3e^{2\gamma}\right] + \left[38_1e^{-2\gamma}+38_2e^{2\gamma}+38_3e^{2\gamma}\right] + \left[38_1e^{-2\gamma}+38_2e^{2\gamma}\right] + \left[38_1e^{-2\gamma}+38_3e^{2\gamma}+38_3e^{2\gamma}\right] + \left[38_1e^{-2\gamma}+38_3e^{2\gamma}\right] + \left[38_1e^{-2\gamma}+38_3e^{2\gamma}\right] + \left[38_1e^{2\gamma}+38_3e^{2\gamma}\right] + \left[38_1e^{2\gamma}+38_2e^{2\gamma}\right] + \left[$

$$\frac{3\zeta_3-3\beta_3}{\zeta_3-\beta_3}$$

Side Side SATE

$$(7.13)$$
 0
 $(0+2)x+5y=0$
 $-x+(0-2)y=sin2t$

$$\phi(0) = \begin{vmatrix} 0+2 & 5 \\ -1 & 0-2 \end{vmatrix} = (0+2)(0-2) - (-1)(5)$$

$$= 0^2 - 4 + 5$$

$$= 0^2 + 1$$

$$x_p$$
, 0 5 = $\frac{1}{5 \cdot n^2 t} \cdot \frac{1}{5 \cdot n^2 t} = \frac{5}{3} \cdot \frac{1}{5 \cdot n^2 t} = \frac{1}{3} \cdot \frac{1}{5 \cdot n^2 t} = \frac{1}{3} \cdot \frac{1}{5 \cdot n^2 t} = \frac{1}{3}$

$$\Delta = \begin{cases}
30+2 & 0-6 \\
40+2 & 0-8
\end{cases} = 30^2 - 240 + 20 - 16 - 40^2 - 20 + 240 + 12 \\
= -0^2 - 4 = -1(0^2 + 4)$$

$$0^2 = -4$$

$$\lambda = \pm 12$$

$$\frac{Particular}{\Delta p} = \frac{\Delta i}{\Delta t} = \frac{5e^{t}}{5e^{t}+2t-3} \frac{0-6}{0-8} = \frac{5e^{t}}{5e^{t}+2t-3} \frac{10e^{t}}{10e^{t}+12t-18} = \frac{10e^{t}}{10e^{t}+14}$$

$$= \frac{1}{D^{2}44} \cdot \frac{1}{10e^{4}} + \frac{1}{D^{2}44} \cdot \frac{1}{D^{2}44} \cdot \frac{1}{D^{2}44} \cdot \frac{1}{D^{2}44} \cdot \frac{1}{5} \cdot \frac{1}{5} \cdot \frac{1}{1} \cdot \frac{1}{2} \cdot \frac{1}{1} \cdot \frac{1}{2} \cdot \frac{1}{1} \cdot \frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{1} \cdot \frac{1}{1} \cdot \frac{1}{4} \cdot \frac{1}{1} \cdot \frac{1}{4} \cdot \frac{1}{1} \cdot \frac{1}{4} \cdot \frac{1}{1} \cdot \frac{1}{1} \cdot \frac{1}{4} \cdot \frac{1}{1} \cdot \frac{1}{1$$

$$\frac{3p = \frac{5i}{\Delta}}{\frac{1}{p^{2}+4}} = \frac{-1}{p^{2}+4} = \frac{3p+2}{4p+2} = \frac{5e^{t}}{p^{2}+4} = \frac{15e^{t}+6+10e^{t}+4t-6-20e^{t}-10e^{t}}{\frac{5e^{t}-4t}{p^{2}+4}} = \frac{5e^{t}-4t}{p^{2}+4}$$

$$5 \cdot \frac{1}{D_{7}^{2}4^{4}} = -4 \cdot \frac{1}{D_{7}^{2}4^{4}} + \frac{1}{D_{7}^$$

$$x = A_{1} \cos 2t + A_{2} \sin 2t + 2e^{t} + 5 - 3t$$
 since $\phi(0)$ and degree, 2 constants $y = B_{1} \cos 2t + B_{2} \sin 2t + e^{t} - t$

Puz into 0

$$3(-2A_1\sin 2t + 2A_2\cos 2t + 2e^t - 3) + 2(A_1\cos 2t + A_2\sin 2t + 2e^t + 5 - 3e)$$

+ $(-2B_1\sin 2t + 2B_2\cos 2t + e^t - 1) - 6(B_1\cos 2t + B_2\sin 2t + e^t - e) = 5e^t$

=
$$2\cos 2t \left(3A_2 + A_1 + B_2 - 3B_1\right) + 2\sin 2t \left(-3A_1 + A_2 - B_1 - 3B_2\right) + 5e^t = 5e^t$$

$$(i) -3(A_1+B_2) = B_1-A_2$$
 $(i) -3(A_1+B_2) = B_1-A_2$
 $(i) -3(A_1+B_2) = B_1-A_2$

". K = A, cos2t + A, sin2t +)et +5-3t, y = A2cos2t - A, sin2t +et -t