Han y; bei 5153709w123 MG= MX + Kbx+lcx = fit). K= wo= 10 = 12 Ewa = 2 Ewa = 5. => x+2 Ewo x+ wo'x= F(t) => -x(+)= x+5x+4x=0 x(+)= e - & Lot (to xo. ous Wat t (b+ & Luoxo x(t)=e wet (xot (VotWo xo) t) \$ X(+)= 2005=== [(vot(Et 5=+1) wo xo).e -wo ( E-JE-1) t 2>1 => \frac{1}{2} + 5\text{5} + 4=0 => \frac{1}{2} + 5\text{7} + 5\text{7} + 6=0 = \frac{1}{2} + 6=0 = \frac{1  $0 \ \Re(0) = 1 \ \Re(0) = 0.$   $\int \Omega + (\lambda = 1) \ \Omega = -\frac{1}{3}$   $-4 \Omega + -C \lambda = 0.$   $C \lambda = \frac{1}{3} = \frac{1}{3} \cdot e^{-4t} + \frac{4}{3} \cdot e^{-t}$  $Q(\chi_0)=1$   $\chi(0)=5$   $Q(\chi_0)=1$   $\chi(0)=5$   $Q(\chi_0)=1$   $\chi(0)=5$   $\chi(0)$ な メンナシト2=0 => x=-2/イ => ycale + tot cz·e-2+

$$-4G - (2^{-1}) \qquad (C_{1} = B_{-1}) \qquad \chi(t) = \frac{1}{3} \cdot e^{-4t} - \frac{1}{3}$$

$$\begin{cases} G' e^{-t} + (2' e^{-2t} = 0) & \Rightarrow \chi(t) = \frac{e^{t}}{1 + e^{-t}} \\ -G' e^{-t} - 2G' e^{-2t} = 1 + e^{-t} \end{cases} \qquad \Rightarrow \chi(t) = \frac{e^{t}}{1 + e^{-t}}$$

$$\Rightarrow G = e^{t} - \ln(He^{t}) + C_{1}$$

$$C2 = e^{-t} - \ln(He^{t}) + C_{1}$$

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$$\Rightarrow \chi(t) = \frac{e^{t}}{1 + e^{-t}}$$

$$\Rightarrow G = e^{t} - \ln(He^{t}) + C_{1}$$

$$C3 = e^{-t} - \ln(He^{t}) + C_{1}$$

$$\Rightarrow \chi(t) = e^{-t} - \ln(He^{t}) + e^{-t} - 2C_{1} = e^{-t}$$

$$\Rightarrow \chi(t) = e^{-t} - \ln(He^{t}) + e^{-t} - 2C_{2} = e^{-t}$$

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Hanyise, 1932/2012)

3: 
$$2\lambda^{2} + b\lambda + 3 = 0$$
 =>  $yc$   $ye = EE A sin = + B cos = 1$ 

$$-\frac{1}{4} sin = -\frac{1}{2} cos = +\frac{1}{2} cos = -\frac{15}{2} cos = -\frac{15}{2} cos = +\frac{1}{2} cos = -\frac{1}{2} cos$$

Cross 
$$R = 10. \int 100 W^4 - 80W^4 + 10 U^4 + 3 U^4$$

$$= 2) W^2 = \frac{1!}{40}, \text{ we get maximum value}. \quad R = 10 \int \frac{181}{16} = \frac{15}{20} \int \frac{100}{16} = \frac{100}{$$