Thursday, September 24, 2020 8:05 PM

$$\dot{X} = -\omega^{2} \times \lambda$$

$$\dot{X}$$

$$x + \omega^{2} x = 0$$

$$y = s \times x(t) = e$$

$$\int_{t}^{2} (e^{i\omega t}) = \int_{t}^{2} (i\omega t) e$$

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$$\int_{t^{2}}^{t} (e^{t\omega}) = -(\omega) e$$

$$= -\frac{2^{\pm}i\omega t}{+\omega e}$$

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$$Vt = {}^{\pm}iz e = [length]$$

$$X_{o}e = X_{o}(\cos \varepsilon + is \cdot \ln \epsilon)$$
  
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$$Q = 0$$

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$$Ae^{i\tau} + Be^{-i\tau} = \times \left(\frac{z}{t}\right)$$

$$X(t) = \frac{A}{2} \left( \cos 2 + i \sin 2 \right) + \frac{B}{2} \left( \cos 2 - i \sin 2 \right) \in Combination$$

$$\chi = (A+B)\cos^2 z + i(A-B)\sin^2 z$$

$$X(0) = A + B = X_{0}$$

$$X(0) = i \frac{\omega}{\omega} (A - B) \leq i \sqrt{2}$$

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$$\frac{\chi(6)}{\chi(6)} = \frac{1}{2} \frac{\chi(6)}{\chi(6)} = \frac{1}{2} \frac{\chi($$

Let's try different ways

... mut + Vo shut

(a 2=0) run into problem.

$$\omega \cdot \chi(t) = \chi_0 \omega_{10} \omega t + V_0 \sin \omega t$$

$$V_0 = \omega \left( \chi(t) - \chi_0 \cos \omega t \right) / \sin \omega t$$

$$= \omega \left( \chi(\frac{\tau}{t}) - \chi_0 \cos(\tau) \right) / \sin \tau$$

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$$= \omega \chi(\frac{\tau}{t}) - \omega \chi_0 \cot(\tau)$$

$$V_0 = \omega \chi(\frac{\tau}{t}) - \omega \chi_0 \cot(\tau)$$

run into problem. L'hopital rule Forgotter, rune lanch.

$$X(x) = X_0(65x + \frac{V_0t}{x} \le M^{2})$$

$$\frac{X(x)}{t \le M^{2}} \left( X - X_0(05x) = V_0 \right)$$

$$\frac{U}{t \le M^{2}} \left( X - X_0(05x) = V_0 \right)$$

$$\frac{U}{t \le M^{2}} \left( X - X_0(05x) + \frac{V_0t}{x} \le M^{2} \right)$$

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