PHYS 321 MARCH 17

Recative
$$\hat{c} = \hat{c}_1 - \hat{d}_2$$

1 0

 $\hat{R} = \frac{m_1 \hat{c}_1 + m_2 \hat{c}_2}{M}$
 $M = m_1 + m_2$
 $\hat{R} = \frac{d\hat{R}}{dt^2} = 0 = 7$
 $\hat{R} = 0$
 $\hat{R} =$

2 de cose

$$\frac{dx}{dt} = \frac{i^2 \cos^2 t + i^2 t^2 \cos^2 t}{-2 i t \cos^2 t \cos^2 t}$$

$$\frac{dg}{dt} = \frac{i^2 \cos^2 t + i^2 t^2 \cos^2 t}{+2 i t \cos^2 t}$$

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$$\frac{x + y^2}{i} = \frac{i^2 + i^2 t^2}{i}$$

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$$\frac{di}{dt} = \frac{x}{i}$$

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$$\vec{L} = \frac{x\vec{e_1} + y\vec{e_2}}{x}$$

$$x = n \cdot \cos \phi \quad y = n \cdot n \cdot \phi$$

$$L = \mu n^2 \cdot \phi \left[-\cos^2 \phi + n m^2 \phi \right]$$

$$= \mu n^2 \cdot \phi \quad = 7$$

$$\mu \cdot \vec{L} = \vec{L}$$

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$$V(1) = \frac{1}{2}k^{2} = \frac{1}{2}k(x^{2}+g^{2})$$

$$cartesian coerdinates;$$

$$m \frac{d^{2}x}{dt^{2}} = -kx = 7x = Acoswot + Bomwot$$

$$m \frac{d^{2}y}{dt^{2}} = -ky = 7$$

$$y = ccosaot + Dom(wot)$$

$$V(1) = \frac{1}{2}k^{2} + \frac{1}{2m^{2}}$$