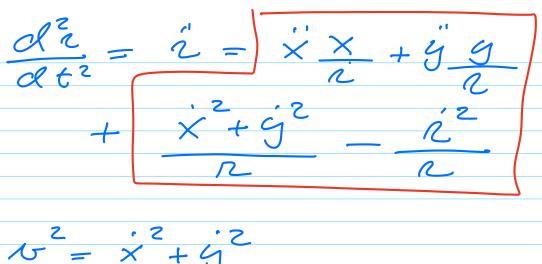
PHY 321, MARCH 22, 2023 $\vec{\lambda} = \vec{\lambda}_1 - \vec{\lambda}_2$ $\vec{R} = m_1 \vec{\lambda}_1 + m_2 \vec{\lambda}_2$ \vec{M} $\mu \ddot{i} = \vec{F}(\vec{i})$ = -82 2 = /2/= (x+y2+22 2 = ((x1-x2)2+(91-92)2+(31-32)2 L= 2×P, we co redefine i aup p to Span the xy- plane the Z-axis is defined by L (2z), constant

$$= 2 \text{ dimm}, x_1 y$$

$$2 \in [0, P) \Leftrightarrow [q \in [q \in T]]$$

$$y = \frac{1}{|x|}$$

$$x = \frac{1}{|x|}$$



5 = x + 4 $x = n \cdot \cos \phi \quad 1 \quad 4 = n \cdot n m \phi$ $\frac{dx}{dt} = x = \frac{dr}{dt} \cdot \cos \phi$ $- r \quad n m \phi \quad \frac{d\phi}{dt}$

 $\frac{dy}{dt} = \dot{y} = \frac{de}{dt} nind$ $+ r \cos \phi \frac{d\phi}{dt}$

$$= n^{2} + n^{2} + n^{2}$$

$$d^{2}z = x + y + y + n^{2}z$$

$$(x = n \cdot \cos \phi + y = n \cdot \sin \phi)$$

$$= x \cdot \cos \phi + y = n \cdot \sin \phi$$

$$+ n \phi$$

$$+ n$$

$$M \cdot \ddot{i} = F_{2} + L^{2}$$

$$M \cdot \ddot{i} = F_{2} + L^{2}$$

$$M \cdot \ddot{i} = F_{2} + L^{2}$$

$$= -\frac{dV}{d2} \qquad \text{Emergy}$$

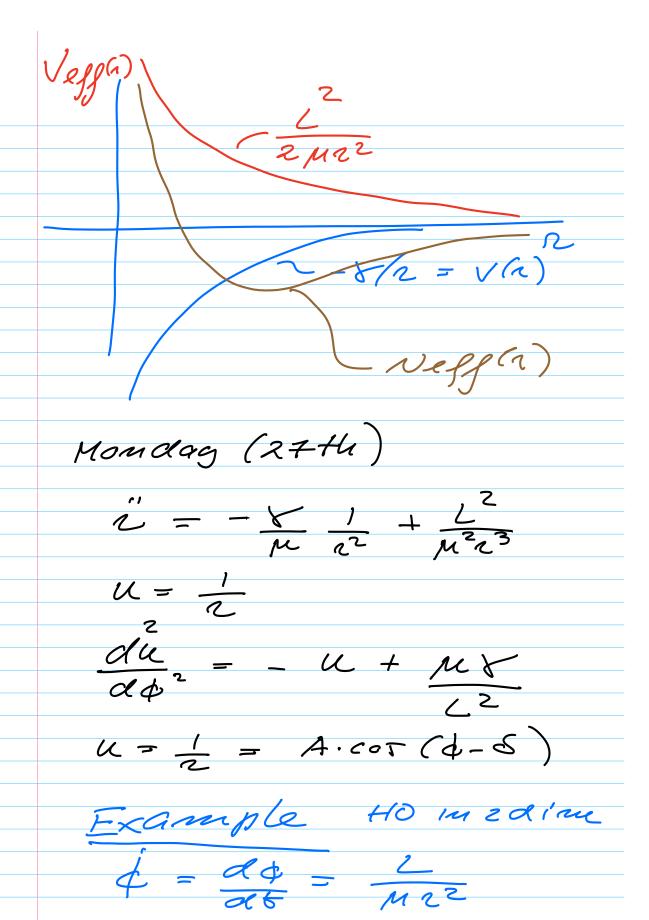
$$= -\frac{dV}{d2} - \frac{dV}{d2}$$

$$= -\frac{dV}{d2}$$

$$+\frac{L^{2}}{M^{2}} - \frac{dV}{d2}$$

$$= -\frac{dV}{d2}$$

$$= -$$



$$\mu \stackrel{\circ}{=} = F \stackrel{\circ}{=} + \frac{L^2}{\mu e^3}$$

$$V(x_19) = \frac{1}{2} k (x^2 + y^2)$$

$$= \frac{1}{2} k R^2$$

$$F(x) = -\frac{dV}{dr} = -kR$$

$$F(x_19) = -\overline{P} V(x_19) = -kX - ky \stackrel{\circ}{=}$$

$$-k \times R - ky \stackrel{\circ}{=}$$

$$\mu \frac{dN_x}{dt} = F_x = -k \times \frac{dN_y}{dt} = -K + \frac{N}{2}$$

$$\frac{dN_y}{dt} = F_y = -k + \frac{N}{2}$$

$$\frac{dN_y}{dt} = N_x - \frac{N}{2} \frac{dN_y}{dt} = N_y$$

$$X = A \cos (N_0 \cdot t) + B om(N_0 \cdot t)$$

$$N_0 = \sqrt{K}$$

$$Y = C \cos (N_0 \cdot t) + D om(N_0 \cdot t)$$

$$Y = C \cos (N_0 \cdot t) + D om(N_0 \cdot t)$$

en uster a and of - KR + 6/M23 $\phi = \frac{2^2}{Mn^2}$ advantage in transfor Analysis-

| $ \tilde{n} = 0 = 7$ $ e=nmin $ $ cincular motion D$ |
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