Discussion of how 7

Exercises 3,4+5.

E in polan coordinates

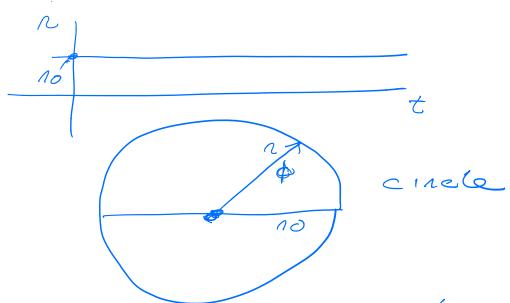
$$E = \{ 2 \mu \left[\frac{1}{2} + \frac{1}{2} \right] + \sqrt{(c)}$$

$$\Lambda \in [0, \infty) \quad \text{kinetic} \quad \text{fig.}$$

Equations of motion

$$\hat{R} = \frac{1}{n} \left[-\frac{dV(G)}{dr} + \mu e \dot{q} \right]$$

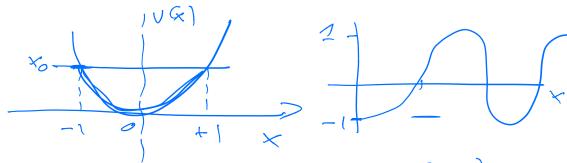
Vey 2 = 0 name 2 cincle



cartesian condinates

$$X \in (-1+4)$$
 $Y \in (-1+4)$

$$V(x_1y) = \frac{1}{2} k(x^2 + g^2) = \frac{1}{2} k n^2$$



$$x(f) = A \cos(\omega t)$$

$$+ B \sin(\omega t)$$

$$y(f) = C \cos(\omega t)$$

$$+ D \sin(\omega t)$$

$$\ddot{y} = - \omega^2 x$$

$$\ddot{y} = - \omega^2 y$$

Polar coordina tes $n_1 \neq 1$ Nels

Nels

Num

Num

Num

Num

Extract ϕ Ct

plot n and ϕ use get an elapse, $n'' = \frac{dn'}{at} = -\frac{dVels}{dt}$ $\frac{dn}{dt} = n'$

Two-body scattering (14 Taglar) $y(a) = \pm \alpha/R$ $x(b) = \frac{C}{1 + E \cos b}$ xease these xeas(bs in g) $y(a) = \pm \alpha/R$ $x(b) = \frac{C}{1 + E \cos b}$ xease these xeas(bs in g) $y(a) = \pm \alpha/R$ $x(b) = \frac{C}{1 + E \cos b}$

can we link these themetreal calculationer restre experiment? scattering angle (expt cross section (expt) impact parameter b (déduce from expt) b(4) or ¢(b), How to relate this to say $n(\phi) = \frac{c}{1 + \epsilon \cos \phi}$?