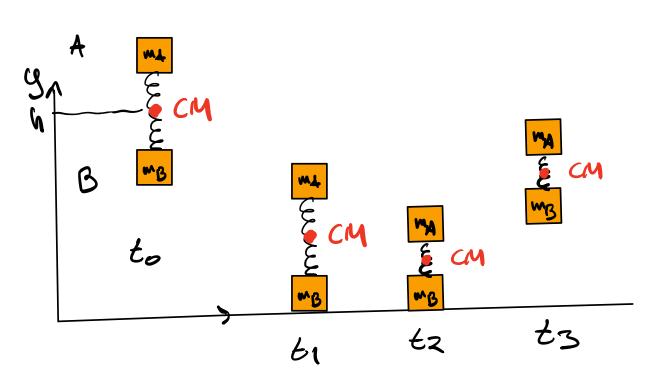
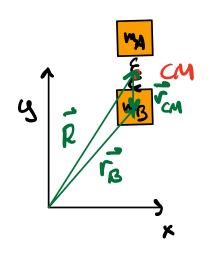
i flerpartikhel system



Kinetisk Energi



$$K = \frac{1}{2} m_A U_A^2 + \frac{1}{2} m_B U_B^2$$

$$K = \frac{1}{2} m_i (U_i)^2$$

$$K = \sum_{i=1}^{2} m_i (U_i)^2$$

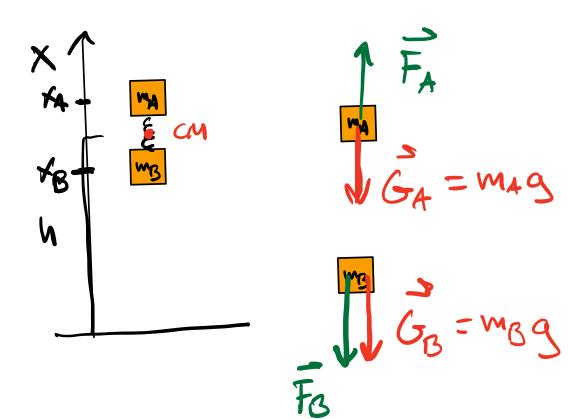
$$K = \sum_{i=1}^{2} m_i (\frac{dv_i}{dt})^2$$

Potensiell energi

Uint =
$$\frac{1}{2} K(ax)^2$$

Energi i for

Energiberring:



Fjæren har lengde b og Hærkanstænd, K.

$$\int_{0}^{\infty} \xi R \qquad F_{A} = -R \Delta L$$

$$\Delta L = (X_{A} - X_{B} - b)$$

$$N.3. loc \qquad F_{A} = -R(X_{A} - X_{B} - b)$$

$$F_{B} = -F_{A} = R(X_{A} - X_{B} - b)$$

N.2. los Kloss A

$$m_{A} \cdot a_{A} = -k(x_{A} - x_{B} - b) - m_{A}g$$

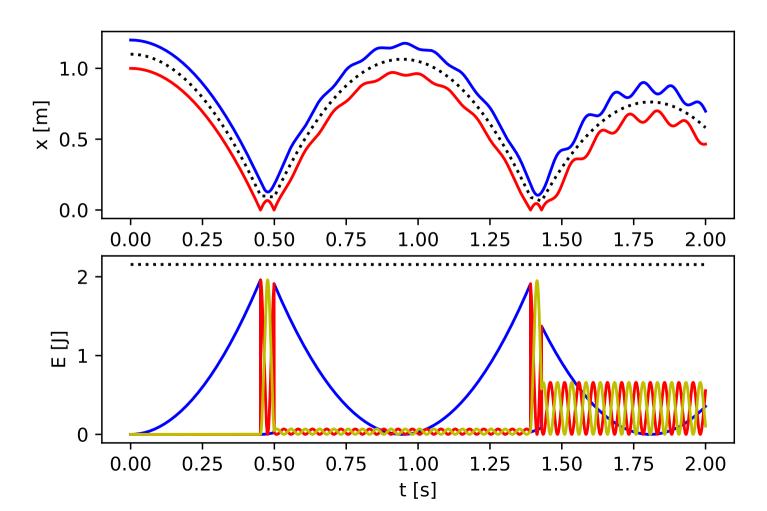
$$a_{A} = -k(x_{A} + x_{B} - b) - g$$

N. 2.lou Kloss B

$$M_{B} \cdot a_{B} = k(x_{A} - x_{B} - b) - M_{B}g$$

$$a_{B} = k(x_{A} - x_{B} - b) - g$$

$$X_A(0) = 1.2m$$
 $U_A(0) = 0$
 $X_B(0) = 1.0m$ $U_B(0) = 0$



Rotasjon

Kap 14

$$\frac{\partial (t + ot)}{\partial (t)} = \frac{\partial (t + ot)}{\partial (t + ot)}$$

$$\frac{\partial (t)}{\partial t} = \frac{\partial (t + ot)}{\partial t} - \frac{\partial (t)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t} - \frac{\partial (t)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot)}{\partial t}$$

$$\frac{\partial (t + ot)}{\partial t} = \frac{\partial (t + ot$$

EB DUD

Unulabedreapu

210 rad/82

Hvor mange runder Suurver DUD-en på 10s?

$$\alpha = 2.0 \text{ rad/s}^2$$

$$\mathcal{K} = \dot{\theta} = \dot{\theta}^{"} = \frac{d^2}{\partial t^2} \theta$$

$$\omega = \int_{0}^{t} x dt = \int_{0}^{t} 2_{10} \operatorname{vad/6}^{2} dt$$

DUD stouter i ro. Dus. w(o) =0

$$\omega = \alpha t$$
 =7C=0

$$\theta = \int wdt = \int xt dt = \frac{1}{2}xt^2 + D$$

$$\Theta(t) = \frac{1}{2} \times .t^{2}$$

$$\Theta(t) = \frac{1}{2} \cdot 2.0 \text{ rad/s}^{2} \cdot t^{2}$$

$$\Theta(t05) = \frac{1}{2} \cdot 2.0 \text{ rad/s}^{2} (t05)^{2}$$

$$\Theta(t05) = 100 \text{ rad}$$

$$En \text{ rande er 2TT radianer}$$

$$\frac{100 \text{ rad}}{2 \text{ Trad/rade}} = 16 \text{ rander}$$