$$\frac{\int^2 \theta}{\int t^2} (t) = -\frac{9}{2} \sin(\theta(t))$$

$$\frac{d^2\theta}{dt} + \frac{1}{L} - \frac{9}{L} \sin(\theta(t)) / \cdot L$$

For a finne lysningen au (1) nor vi vet (2) finer jes sadan: do : V 3 d = 1 dy 1. L $\int_{1/2}^{2} \frac{d\theta}{dx} = \frac{dV}{dx} \qquad (k)$ Setter (*) inn i ligning on dv = -5 Sin (O(+)). dvs. $L\frac{d^2\theta}{dt^2} = -9\sin(\theta(t))$, som er ligning (1) b) Lignins systemet $\frac{dv}{dt} = -g\theta \qquad \int \frac{dv}{dt} = \frac{v}{L}$ Startverdier