$$\theta_{2}' = \theta_{2}$$

$$\theta_{2}' = -\frac{g}{2} \sin \theta_{1}$$

$$\theta_{2}' = -\frac{g}{2} \sin \theta_{2}$$

i)
$$\frac{d\theta_1}{dt} = \theta_1(t,\theta_1,\theta_2) = \theta_2$$

$$\frac{\partial \mathcal{D}_2}{\partial t} = \mathcal{J}_2(t, \mathcal{O}_1, \mathcal{O}_2) = -\frac{g}{L} \sin \mathcal{O}_1$$

initial conditions:

$$\theta(t=0)=0$$
, and $\frac{d\theta}{dt}\Big|_{t=0}=0$

geturn value at n.

$$x=t$$
, $\theta_1=y$, $\theta_2=Z$

$$\frac{dy}{dt} = Z \qquad \frac{dZ}{dt} = \left(-\frac{g}{2}\right) \sinh(g)$$

$$y_0 = 0$$
, $y_0 = 0$, $y_0 = 0 = 0$

- I alfrod ood!)

delegany the distribute for

1 = 5 104