

## Things

$$, \frac{I_1 \left( \frac{\partial}{\partial t} q_1(t) \right)^2}{2} + \frac{I_2 \left( \frac{\partial}{\partial t} q_2(t) \right)^2}{2} + \frac{I_3 \left( \frac{\partial}{\partial t} q_2(t) + \frac{\partial}{\partial t} q_3(t) \right)^2}{2} - g m_3 \left( L_1 + \frac{L_2 \sin(q_2(t))}{2} + \frac{L_3 \sin(q_2(t) + q_3(t))}{2} \right) -$$