PROBLEMA

$$\begin{bmatrix}
 M(a)\ddot{q} = f(q_{1}\dot{q}_{1}E_{1}) \\
 0 = f(a_{1}) \\
 0 = q_{1}q_{1}
 \end{bmatrix}$$

b)
$$\frac{d}{dt} \phi = 0 \rightarrow \left(\frac{\partial}{\partial q} v\right) = 0$$

$$\int 1 + \frac{1}{2} \phi^{T} \phi + \frac{1}{2} \left(\frac{\partial}{\partial q} v\right)^{T} \left(\frac{\partial}{\partial q} v\right) w_{2}$$

PENACISE CONSTRAINT SPEED

REDUCTION