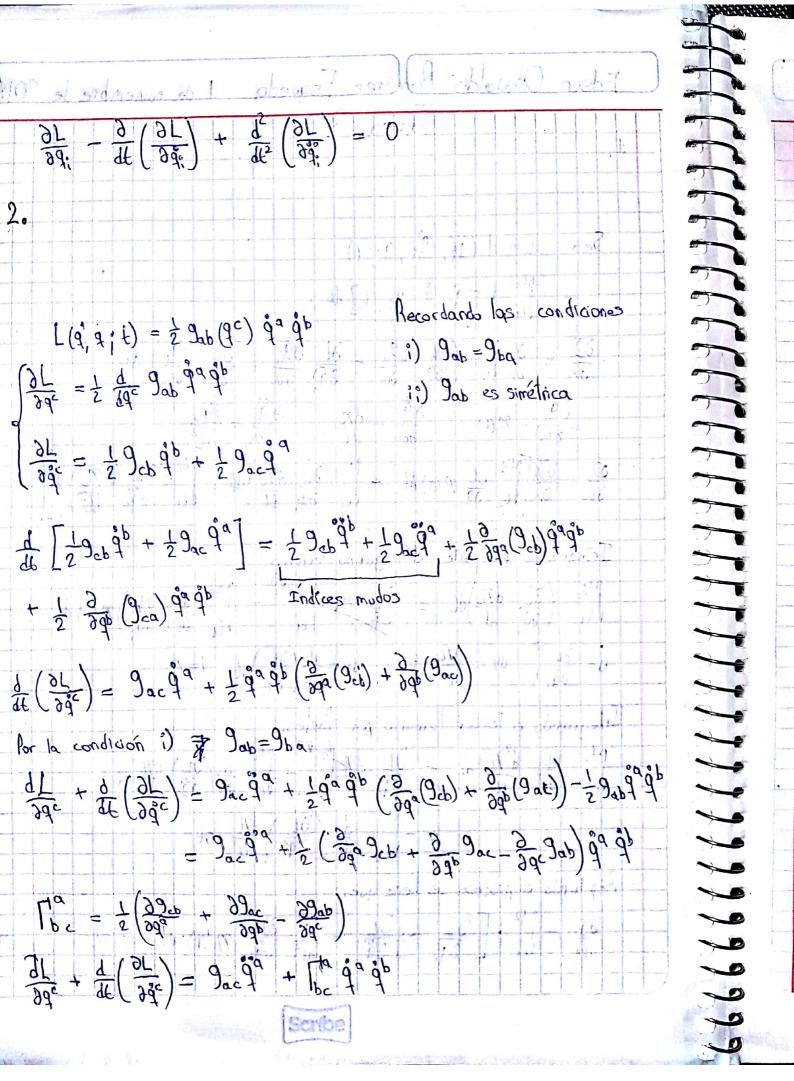
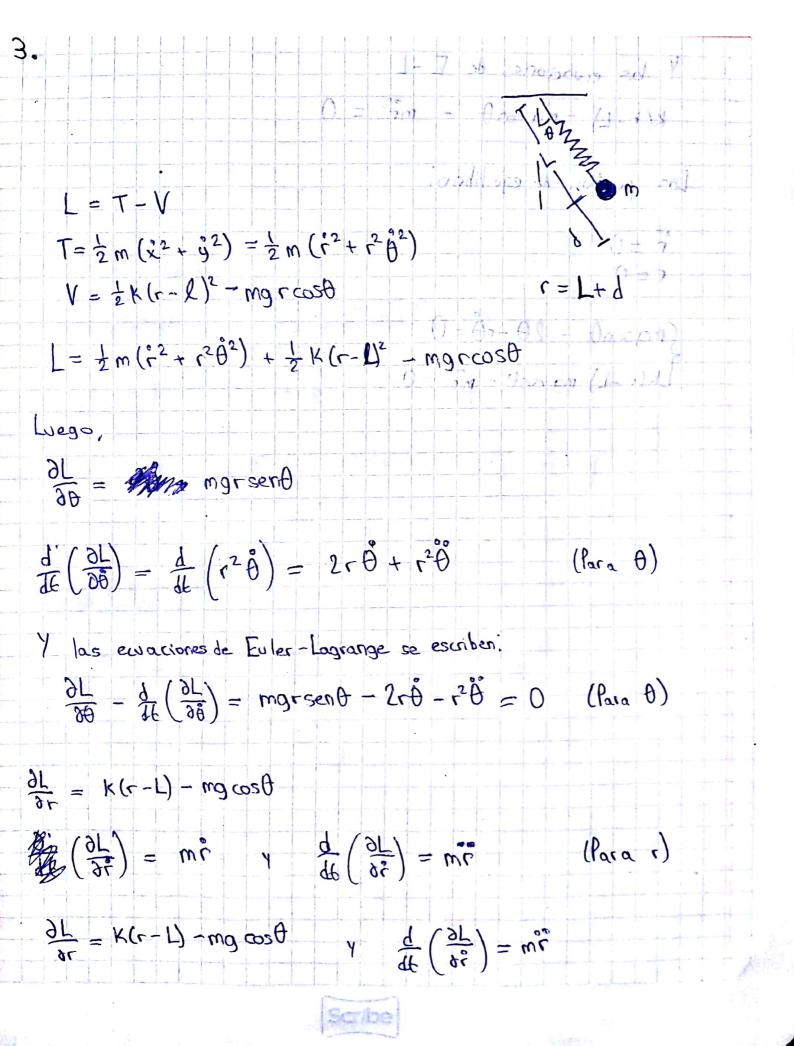
Edson Oswaldo Manirez Esqueda 1 de noviembre de 2018 1 Sea L= L(q;, q;, q;, t) 7 = 12 L Ti, q, q, t de  $\frac{\partial x}{\partial \lambda} = \frac{9x}{9} \int_{\mathbb{R}^{3}} \left( \frac{3d}{9\Gamma} \right) \frac{3d}{3d^{3}} + \frac{9d}{9\Gamma} \frac{9d}{9d^{3}} + \frac{9d}{9\Gamma} \frac{9d}{9d^{3}} \right) d\rho$  $\frac{\partial 9}{\partial x} = n(t), \quad \frac{\partial 9}{\partial x} = \frac{\partial n}{\partial t}, \quad \frac{\partial 9}{\partial t} = \frac{d^2n}{dt^2}$ 35 - 35 [ [ 12 3L nt) dt + [ 62 ( 3L dn ) dt + [ 62 ( 3L 32 ) dt ] Integrando por partes el segundo término.  $\int_{0}^{\epsilon_{2}} \left( \frac{\partial L}{\partial \dot{q}}, \frac{\partial n}{\partial t} \right) dt = \frac{\partial L}{\partial \dot{q}}, \frac{n_{1}}{n_{2}} \Big|_{\epsilon_{1}}^{\epsilon_{2}} - \int_{\epsilon_{1}}^{\epsilon_{2}} \frac{d}{dt} \left( \frac{\partial L}{\partial \dot{q}_{i}} \right) n(t) dt$  $0 = \frac{\partial L}{\partial a_1}$   $dv = \frac{dR}{dt} db$   $v = \frac{dL}{dt} \left( \frac{\partial L}{\partial a_2} \right) dt$  v = Nラララララフラファン ララララファン Integrando el tercer término por Partesi.

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Repitiends el proceso se tiene que.  $\frac{\partial T}{\partial x} = \frac{162}{162} \left[ \frac{\partial L}{\partial q} \right] \frac{\partial L}{\partial q} \frac{\partial L}{$ Scribe





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Las puntos	de equilibrio.			17 1
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4.
H (1 2 1/2 0 <sup>2</sup> )
a) $L = e^{i t} \left( \frac{1}{2} m \mathring{q}^2 - \frac{1}{2} k^2 q^2 \right)$ $\frac{\partial L}{\partial q} = e^{i t} k^2 q^2$ $\frac{\partial L}{\partial q} = e^{i t} m \mathring{q}^2 - \frac{1}{2} k^2 q^2$
$\frac{d}{dt}\left(\frac{\partial Q}{\partial Q}\right) = bme^{\frac{1}{2}}q^{\frac{2}{3}} + e^{\frac{1}{2}}\left[\left(\frac{q}{q}\right)^{2} + q^{\frac{2}{3}}q^{\frac{2}{3}}\right]$
H 000 pm 6pl 0 d + 6 (00) + 6pl 0 d = 0
b) $Q = e^{4/2}q$ , $q = Qe^{-51/2}$ $q = Qe^{-4}(-2)Qe^{-2}$
SARTANA II
$L = \left(e^{\frac{1}{2}m} e^{\frac{1}{2}m} e^{\frac{1}{2}} \left(e^{\frac{1}{2}m} e^{\frac{1}{2}} e^{\frac{1}{$
$L = \frac{1}{2} \left[ m \left( Q - \frac{b}{2} Q \right)^2 - K^2 Q^2 \right] / $