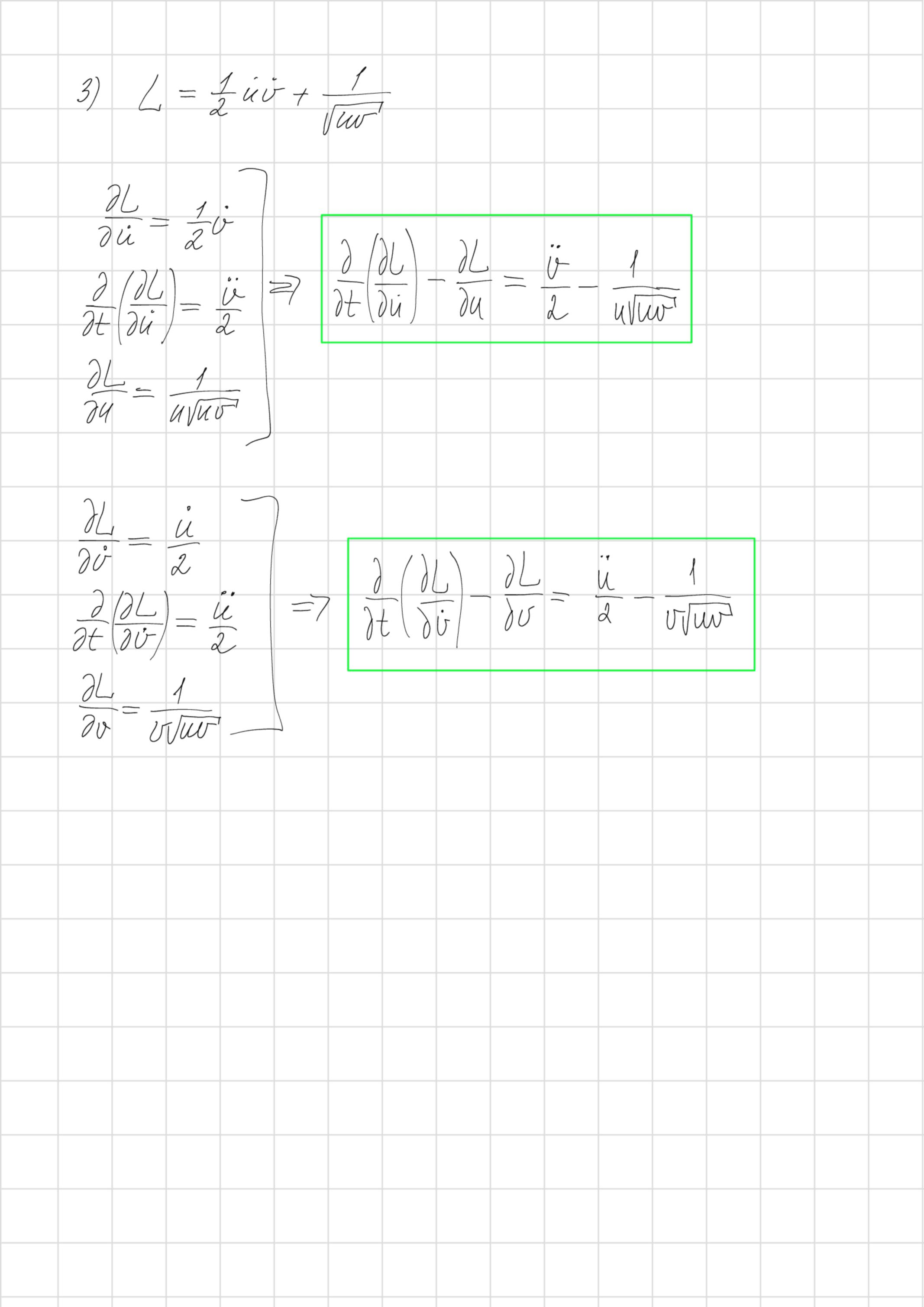
Tropos.

N. S.

1)
$$L = \frac{(4g^2)q^2}{q^2} - \frac{1}{2}$$
 $\frac{2L}{2q} = (4+q^2)q$
 $\frac{2L}{2q} = (4+q^2)q$
 $\frac{2L}{2q} = (2q^2 + (4+q^2)q) \Rightarrow \frac{2}{2} + (2q^2) \Rightarrow \frac{2}{2} +$



1) Borboy go. L.
cer. 9.1. "Fynk. 1." ~ 4 $L = \frac{n}{2}(m_1 + m_2) + \frac{m_2}{2}(\dot{a}^2 + (a\dot{q})^2 + 2\dot{x}(\dot{a}\cos\varphi - a\sin\varphi\dot{\varphi})) - m_2 q a \sin\varphi$ $\frac{\partial}{\partial t}\left(\frac{\partial L}{\partial \dot{x}}\right) - \frac{\partial L}{\partial x} = \frac{\partial}{\partial t}\left(m_1 + m_2\right)\dot{x} + m_2\left(\dot{a}\cos\varphi - a\sin\varphi\dot{\varphi}\right) =$ $(m_1+m_2)\ddot{x} + m_2/\ddot{a}\cos\varphi - \dot{a}\sin\varphi\dot{\varphi} - (\dot{a}\sin\varphi\dot{\varphi} +$ $+ \alpha \cos(\varphi^{2} + a \sin(\varphi)) = (m_{1} + m_{2}) \dot{i} + m_{2} (\dot{a} - a\dot{\varphi}) \cos(\varphi - \varphi) \dot{i}$ - (2aý+aý) siny) $\frac{\partial}{\partial t} \left(\frac{\partial L}{\partial \dot{\varphi}} \right) - \frac{\partial L}{\partial \dot{\varphi}} = \frac{\partial}{\partial t} \left(m_{\dot{\varphi}} \frac{\partial \dot{\varphi}}{\partial \dot{\varphi}} - m_{\dot{\varphi}} x a s i n \dot{\varphi} \right) + m_{\dot{\varphi}} x \left(a s i n \dot{\varphi} + m_{\dot{\varphi}} x a s i n \dot{\varphi} \right)$ $+a\dot{\varphi}\cos\varphi)=m_{z}2a\dot{a}\dot{\varphi}+m_{z}a\dot{\varphi}-m_{z}\dot{x}a\sin\varphi$ - mz ri a sinp - mz ri a cospp + mz r (a sing + $+aigeos \varphi) = m_e \left(a \left(2ai \varphi + \dot{\varphi}\right) - Sin \varphi \left(xa - xa + xa\right)\right)$ \frac{\partial}{\partial} = \frac{\partial}{m_2\alpha} + dixcosp - my\alpha + 2x sing\beta + mg\sing\partial mä + 2x cosp - 2 x shy i - my a + 2 x shy i + my g shy = = $m_z(a-4^2a+gsih\varphi)+2i'cos\varphi$

