

$\mathcal{L}(q, \cdot, t)$

graph $\frac{\partial \mathcal{L}}{\partial \dot{q}}$

graph $\frac{\partial \mathcal{L}}{\partial \dot{q}} \dot{q}$

$\mathcal{H}\left(q, \frac{\partial \mathcal{L}}{\partial \dot{q}}, t\right)$

\dot{q}

