Линденани Микита 874

$$\int (x'(t) + 5u'(t)) dt \longrightarrow min$$

$$\dot{x}(t) = 4x(t) + u(t), \quad \dot{x}(1) = 1$$
1)  $\dot{h} = \dot{h}_{0}(X^{2} + 5u^{2}) + \rho(\dot{x} - 4x - u) - \rho y \mu k y u.s. \Lambda a p a u z e a$ 
2) Урабиемие Эблера  $\iff \dot{p} = 2\dot{h}_{0}X - 4\dot{p} - cop a z e e h no e u = h no u = h u = 0$ 

10  $\dot{h}_{0}u - \dot{h}_{0} = 0$ 

$$\dot{\rho} = 2\dot{h}_{0}X - 4\dot{p} \qquad 1. \quad \dot{h}_{0} = 0 \implies \dot{p} = 0 - u e no g x o y u = 0$$

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