$$L(\vec{X}, \vec{\hat{X}}) = (-mC^2)\sqrt{1 - \frac{\dot{\vec{X}}^2}{C^2}}$$
KOUCTAKTA

$$P_{x} = \frac{\partial V}{\partial \dot{x}} = -mc^{2} \frac{1/2}{\sqrt{1-\frac{\dot{x}^{2}}{c^{2}}}} \left(-\frac{2\dot{x}^{2}}{c^{2}}\right) =$$

$$= + \frac{mc^{2}}{2^{2}\sqrt{1-\frac{\dot{\chi}^{2}}{C^{2}}}} \pm MM$$

$$=\frac{m\overset{\circ}{x}}{\sqrt{1-\overset{\circ}{x}^2}}=\sqrt{1-\frac{\overset{\circ}{x}}{C^2}}=\frac{m\overset{\circ}{x}}{p_x}$$

$$H = p_{x} \dot{\vec{x}} + h = \frac{m \dot{\vec{x}}}{\sqrt{1 - \frac{\dot{x}^{2}}{C^{2}}}} \dot{\vec{x}} + mc^{2} \sqrt{1 - \frac{\dot{x}^{2}}{C^{2}}} \bigg|_{\dot{\vec{x}} = \frac{p_{x}^{2}c^{2}}{mc^{2}+p^{2}}}$$

$$\dot{x} = \sqrt{\frac{w_5 C_5 + b_{x_5}}{b_{x_5} C_5}}$$

$$b \times \sqrt{1 - \frac{C_5}{x_5}} = m \dot{x}$$

$$H = \frac{1 - \frac{m_3 G_5 + b_{x_5}}{w_5 G_5 + b_{x_5}}}{b_{x_5} G_5} + \frac{m_5 G_5 + b_{x_5}}{b_{x_5}} + \frac{m_5 G_5 + b_{x_5}}{b_{x_5}} =$$

$$H = \frac{\Lambda m_3 C_5 + b x_5}{b x_5 G} + \frac{b x}{m_5 G_5} \cdot \frac{\Lambda m_5 C_5 + b x_5}{b x_6} = \frac{\Lambda m_5 C_5 + b x_5}{b x_5 G} = \frac{\Lambda m_5 C_5 + b x_5}{b x_5 G}$$

S) ** 141/2 H

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$$\mathbf{b}^{\times} = -\frac{3\times}{3H} = 0$$

$$x = \frac{3b^{2}}{3H} = \frac{3b^{2}}{(8b^{2})^{2}} = \frac{3b^{2}}{(8b^{2})^{2}$$

$$= 5b \times (m_5 c_5 + b_5) - b \times (b_5 c + m_5 c_3)$$

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