$$\mathcal{L}(\vec{X}, \vec{\hat{X}}) = -mc^2 \sqrt{1 - \frac{\vec{\hat{X}}^2}{C^2}}$$
KOUCTANTA

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

$$= + \frac{mc^{2}}{2^{2}\sqrt{1-\frac{\dot{x}^{2}}{C^{2}}}}$$

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

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

$$P \times \sqrt{1 - \frac{\dot{x}^2}{\Omega}} = m\dot{x}$$

$$\Rightarrow \frac{w_s c_s + b x_s}{b^{x_s} c_s}$$

$$H = \frac{1 - \frac{w_3 c_3 + b x_5}{w_5 c_5 + b x_5}}{w} \cdot \frac{w_5 c_5 + b x_5}{b x_5 c_5} + w c_5 \sqrt{1 - \frac{w_5 c_5 + b x_5}{b x_5}} =$$

$$H = \frac{\sqrt{m_3C_5 + bx_5}}{bx_5c} + \frac{bx}{m_5c_5} \cdot \frac{\sqrt{m_3C_5 + bx_5}}{bx_5c} = \frac{\sqrt{m_3C_5 + bx_5}}{bx_5c} + \frac{\sqrt{m_3C_5 + bx_5}}{bx_5c}$$

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

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

WANDLEN BUSIN

e\$ \$ \$