7. a) Encyclicant um das vaine:
$$\frac{\partial L}{\partial t} = m(h_1 - h_2) + Q - kc$$

$$Q = m(h_2 - h_3)$$

$$\frac{\hat{Q}_{10}}{\hat{Q}_{11}} = \frac{6.5 \cdot \frac{k_{2}}{5} \left(\frac{419.02 \cdot \frac{k_{2}}{5} - 292.93 \cdot \frac{k_{2}}{61} \right)}{490 \cdot \frac{4}{900}} = 4.37.818 \cdot \frac{1818 \cdot \frac{1}{1800}}{1000} = \frac{62.182 \cdot \frac{1}{1800} \cdot \frac{1}{1800}}{1000} = \frac{62.182 \cdot$$

$$\int_{0}^{\infty} \int_{0}^{\infty} \int_{0$$

$$m_2u_2-m_1u_1= \sin h \exp \pm \Omega$$

$$\Delta m = \frac{m_2u_2-m_1u_1-\Omega}{h e in}$$

$$\Delta m(u_1 - h_2) = m_1 u_1 + u_2 - m_1 u_2$$

$$\Delta m = \frac{m_1 (u_1 - u_2) + u_2}{u_2 - h_2} = \frac{m_2 (u_1 - u_2) + u_3}{u_3 - h_2}$$

$$S_{1} = \frac{16342}{16542} \cdot 16506 \cdot \frac{165}{169} \cdot \frac{16542}{169} \cdot \frac{16542}{169$$

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The I Arkn adjok 2:

= 321.7829 = u6

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 $\int_{0}^{\infty} \frac{1}{h_{0}} \left(\int_{0}^{\infty} - \int_{0}^{\infty} \left(\int_{0}^{\infty} - \int_{0}^{\infty} \right) + \frac{w_{0}^{2}}{2} - \frac{w_{0}^{2}}{2} \right) = \exp\left(\left(\int_{0}^{\infty} - \int_{0}^{\infty} \right) - \left(\int_{0}^{\infty} \left(\int_{0}^{\infty} - \int_{0}^{\infty} \right) - \int_{0}^{\infty} \left(\int_{0}^{\infty} - \int_{0}^{\infty} - \int_{0}^{\infty} \left(\int_{0}^{\infty} - \int_{0}^{\infty} - \int_{0}^{\infty} \left(\int_{0}^{\infty} - \int_{0}^{\infty} - \int_{0}^{\infty} - \int_{0}^{\infty} \left(\int_{0}^{\infty} - \int_{0}^{\infty} - \int_{0}^{\infty} - \int_{0}^{\infty} \left(\int_{0}^{\infty} - \int_{0}^{\infty}$ = 1006 \frac{1}{56}. (328.0716-22), 15h) - 223.15k. (1006 \frac{2}{45h}. \langle \langle \langle \frac{1}{243.15}) + \frac{(328.767)}{2} - \frac{(2007)}{2} = 76200 is 76,200 to $\int \int b_1(a_1) \int db = \int \int \int db = \int \partial b = \int \int \int \partial b = \int \int \partial b = \partial b =$ = 1,006 kg/k · In (321.075) = 0,301) E

expel= To 18e2 = 2 ft. 15 k. 0. 3071 his = 73.276 kg

Thos Frity 2028

$$\frac{1}{100} = \frac{1}{100} = \frac{8.31 \times \frac{1}{100} \times \frac{1}{100}}{\frac{1}{100} \times \frac{1}{100}} = \frac{166.78 \times \frac{1}{100}}{\frac{1}{100} \times \frac{1}{100}}$$

$$\frac{1}{100} = \frac{1}{100} \times \frac{1}{100} \times \frac{1}{100} \times \frac{1}{100} = \frac{1}{100} \times \frac{1}{100} \times \frac{1}{100} = \frac{1}{100} \times \frac{1}{100} \times \frac{1}{100} \times \frac{1}{100} = \frac{1}{100} \times \frac{1}{100} \times \frac{1}{100} \times \frac{1}{100} = \frac{1}{100} \times \frac{1}{100} = \frac{1}{100} \times \frac{1}{100} = \frac{1}{100} \times \frac{1}{100} \times \frac{1}{$$

$$pV = m/\sqrt{1},$$

$$m = \frac{f_3 \cdot V_3}{1 \cdot T_3}$$

$$E_1 = \frac{(m_A + men)^{1/2}}{A} + fe$$

$$= \frac{(32 \log + 6.745)}{6.00745} \frac{9.317}{m^2} + 70^{7} fa$$

$$= 180 0.97.2317 fa = 1.401 her$$

$$m = \frac{p_3 \cdot V_3}{\Lambda \cdot T_3}$$

$$= \frac{1.4e_3 \cdot 10^3 f_4 \cdot 3.12 \cdot 10^3 m^3}{4.56 \cdot 10^3 f_4 \cdot 10^3 f_4 \cdot 10^3 m^3} = 0.0034 \cdot 10^3$$

$$= \frac{3.42229}{4.56 \cdot 10^3 f_4 \cdot 10^3 f$$

$$W = \int_{1}^{2} \rho dV = \rho_{0}(V_{2}-V_{1}) \quad V_{2} = \frac{mRT_{2}}{\Gamma_{2}}$$

$$= 0.00392hg \cdot 8766.66$$

Evant $\int_{\mathbb{R}^{N}} \frac{du}{du} = \frac{du}{du}$

 $X_{2,\text{fit}} = \frac{u_{\ell} - u_{\text{fest}}}{u_{\ell 1} - u_{\ell 0}} = \frac{-171.706 - (-3.57.938)}{-0.085 - (-153.858)} = 0.42337 \quad X_{\text{Eyro}} = 1 - X_{\text{fl}}$ = 0.57.663

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Tho I Right 2029

$$\dot{n} = \frac{W_{k}}{h_{1} - h_{3}} = \frac{-28 \frac{1}{2} \cdot h_{3}^{2}}{237.7 \frac{h_{3}^{2}}{10} - 271.3 h_{3}^{2}} = \frac{0.0004376}{0.0004376} = 0.73.379\frac{4}{3}$$

$$X_{1} = \frac{h_{1} - h_{1}}{h_{1} - h_{1}}$$

$$R_{1} = P_{2} \qquad P_{2} = Tab = A = 0 \Rightarrow T = -16T = \frac{1.57745}{1.5 - 1.4} = \frac{1$$

$$h_{7} = \frac{1.6 - 1.7}{1.6 + 1.4} \left(\frac{1.5745 - 1.6}{1.5745 - 1.6} + 236.67 + 237.7263 \right) \frac{63}{63}$$

$$= \frac{93.62 - 121.4267 - 29.2447}{211.4267 - 29.2447}$$

$$= 6.3677$$

$$\hat{G}_{2}^{a} : \frac{dk}{dt} = \dot{m}(h_{1} - h_{1}) + \hat{u} - kc$$

$$\dot{G}_{3}^{a} \dot{m}(h_{2} - h_{1}) = 0.00083240(2)3.77 - 93.72 \frac{12}{3}) = 120.830)_{5}$$

$$\xi_{k} = \frac{120.736 k}{21 \pm 1} = 4.30$$