

32) 3 Hint 2 100°C 10 cm³ = 1 m²

1 Atm = 1,01 × 105 Pa) 100 °C = 373 K 100 cm³ 300 cm³ V $pV = nRT \Rightarrow n = P_iV_i$ RT_i 1-2 $\frac{V_1}{T_1} = \frac{nR}{P} = \frac{V_2}{T_2} = \frac{1}{V_1} = \frac{1}{V_1}$ b) Q = n Cv AT const. V. lame

adiabat is Q=0

AF = Wext + Q

120 mg He = 43/mole 62) 5P + 3 3 n = M. 1 Find 1000 cm³ V₃ V @1
nRT,
P= TV West = 0 Wext = - SP AV Went = - NRT ln TF Wext = - PAV VE 3-1

$$P \cap 2 \longrightarrow A \in 20 = W_{ert} \cap Q = 0$$

$$Q = -W_{ert}$$

$$Q = -W_{ert}$$

$$Q_{\mu} + Q_{c} = 0$$

$$Q_{\mu} + Q_{c} = 0$$

$$Q_{\mu} - Q_{\mu}$$

$$Q_{\mu} = -Q_{c}$$

$$M_{H} c_{H} \left(T_{F} - T_{H}\right) + M_{c} c_{G} \left(T_{F}^{T}\right)$$

$$Q = M_{C} \Delta T$$