$$m = 600K$$
 $T_1 = 600K$ 
 $T_2 = 4.105 Twa$ 
 $T_3 = 2493 Pm$ 
 $T_4 = 2493 Pm$ 
 $T_4 = 8,31 Pm$ 
 $T_$ 

$$\frac{P_{2}V_{2} = DRT_{2}}{P_{1}} = \frac{1}{V_{1}} = \frac{1}{2} = \frac{1}{2}$$

$$\frac{P_{2}}{P_{1}} = \frac{V_{1}}{V_{2}}^{2} = \frac{1}{2} = \frac{1}{2}$$

$$T_{2} = \frac{1}{2} \cdot T_{1} = 300 \text{ K}$$

$$T_{2} = \frac{3}{2} \cdot DRT_{2} = \frac{3}{4} \cdot DRT_{1}$$

$$U_{2} = \frac{3}{2} \cdot DRT_{2} = \frac{3}{4} \cdot DRT_{1} = -\frac{3}{4} \cdot DRT_{1}$$

$$AU = U_{2} - U_{1} = \frac{1}{2} \cdot \frac{3}{2} \cdot DRT_{1} - \frac{3}{4} \cdot DRT_{1} = -\frac{3}{4} \cdot DRT_{1}$$

$$Q = \Delta U + A = -\frac{3}{4} \cdot DRT_{1} + A = -1246.5 \text{ Pm}$$

$$Ombern: -1246.5 \text{ Dm}$$

Mulland.

To Mikamusho kongu P(V). V Mikentre Moto

Cormetro granpane 
$$P = NP_0 - K(V-V_0)$$
 rye
$$K = \frac{\Delta P}{\Delta V} = \frac{(N-1)P_0}{(N-1)V_0} = \frac{P_0}{V_0}$$

$$\frac{T_{Anox}}{T_{o}} = \frac{(n+1)^{2}}{4n} = \frac{(n+1)^{2}}{3}$$