班级:

$$\frac{1}{\sqrt{a_{1}}} = \frac{1}{\sqrt{a_{1}}} = \frac{1$$

P) 
$$Q = W_{12} + \Delta U_{12}$$
:

 $P_1 = \frac{7RT}{V} = \frac{2R_{12}00}{20\times10^{-3}} = 6R\times10^4 P_0 = 4.986\times10^6$ 

B). DU=0.

$$Pd(v-b)+(v-b)dp = Pop dv = -Pd(v-b)$$

$$Pd(v-b)+(v-b)dp = Pop dv = -Pp d(v-b)$$

$$Cvim Pd(v-b)+(v-b)dp = 0$$

$$P(v-b)Cvim = C - P(v-b)' = C.$$

1 = dQ = dU + do = cd7 T+(1/2+p). (Po-01+200 + TadV+ PdV P+P=XV-b)=AT. P3-(N-P)9N-B9. PdV-PdV+ZabdV=Rd

FIRSTER: (P-P0)A= mg. (B+mg)V=nRT. P: (V-Aah)=nR]
- P = (Po+mg) V
V-Aah. (Pi-P) A = (Po+mg) Po+mg)Azok