三、证例题

1. igno.

也, 计算题, = (1011) 2至X(= (17-17) 2 X = U4-1 =) W

1. 解: 引得 pr=a, 气体,所做功

$$W' = \int_{V_i}^{V_L} p \, dv = \int_{V_i}^{Q} \frac{q}{v^2} \, dv = \alpha \left(\frac{1}{V_i} - \frac{1}{V_L} \right)$$

由pv=a及pv=VRT,得

$$V = \frac{q}{VRT}$$

EP

$$T_{i}-T_{i}=\frac{q}{VRV_{i}}-\frac{q}{VRV_{i}}=\frac{q}{VR}\left(\frac{1}{V_{i}}-\frac{1}{V_{L}}\right)$$

$$\int_{0}^{V_{F}} \frac{42A}{N} v^{2} dv = 1$$
, $\begin{cases} \frac{4}{3} & \frac{42A}{N} & \frac{V_{F}^{3}}{3} = 1 \end{cases}$, $A = \frac{\frac{3}{4}N}{42V_{F}^{3}}$,

中的印配计具为

$$\int_{0}^{\sqrt{L}} \frac{1}{L} m v^{2} \cdot \frac{4 \pi A}{N} v^{2} dv = \frac{4 \pi A}{N} \left(\frac{1}{L} m\right) \frac{v_{F}^{2}}{F}$$

代入A位,得

$$\overline{\xi_{k}} = \frac{42}{N} \left(\frac{3N}{42 V_{2}^{2}} \right) \cdot \left(\frac{1}{2} m \right) \frac{V_{2}^{2}}{5} = \frac{3}{5} \cdot \frac{1}{2} m V_{2}^{2}$$