Chiq. 4.14.21.26,27,28, 57.5%. 4. (a)W=poV= 5.1]. OEmt=11.5-5/=17.4] C67 - pvi = nRTi. Tip= 204.83k. Tf = 009.66 .. Cp = n.ot = 36.9J/mol.k (c). cv=cp-R=28.59J.m/-1.K-1. (4. Fint = 3.5x10 x2x= = 5.5x10) EQ:n.Cost For diatomic gas $Cv = \frac{1}{2}R$ PuznkT. Soint = n. Cuot = 5n. R. ot = Inp (Peuc - Paula) = - T(Peuc - Paua) = - 20kJ. (b) QZO-W = 0 £ int : Q = -14.3 RJ. W=nR]. $In \frac{Vf}{Vi}$ $Vf = e^{\frac{Q}{NkT}}$ $Vf = e^{\frac{Q}{NkT}}$ $Vf = e^{\frac{Q}{NkT}}$ 1= (300 1=10.3.0.8×8.319 = 529.334.

> 製作 扫描全能王 创建

W=-n Cov (Tf-Ti) Cu = -1. W= - nR (Tf - Ti) Ky w=-12345.5]. (u) P; vi "= Pf ut" "Pf. = 0.0.106 atm (N) Pivi = neTi Pf = Ti. Pf vf = 1999.1K. T: v: 0-0 = Tf uf 0.4. 28 com varg = Tarte vp = SAT rang= up in Te p 137. Vrms = 2RT ·. V = 182.6 m/s. M(H2) 可得.

21. (a) $y = \frac{1}{12 \log n \ln n}$. $\sqrt{n} = 1 \times n_0 \log \frac{1}{n}$

(b). Value is too large 50 it's nearry ful.