1/4

3 2.502 1,000

11) $\frac{N(H')}{M(H)} = \frac{1}{N(e)} \int \frac{2\pi m_e J_a}{h^2} T \int_{-1.6105/T}^{3a} -1.6105/T$ (a) N(H) = 1 CN:No site 54 13N) (3) N(e)=jN(H) . N_L=NterIMP) Me)=MP) NS 01 (4) N/L= 5 10"4 m3 Pos 14 se) 1 = \frac{2}{510\frac{10}{6.23}\lefter \frac{1}{6.23}\lefter \frac{100}{2}\lefter \frac{1}{8}\lefter \frac{1}{8}\lefter \frac{100}{100}\lefter \frac{1}{8}\lefter \fr 1=2.9 10 cm-3 (21) = 73 C-1.6/05



24:
$$|AAD = 10 | A | 2 | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 | A | 2 |$$

(5) $M(y) = u \pi d_{c} \left(\frac{y^{3}}{3} - \frac{y^{4}}{uR}\right)$ & M(y=u) = 0 $\Rightarrow ris$ $R = 0 ris \Rightarrow ris$ (6) $M(R) = \frac{\pi d_{c} R^{3}}{3}$ 3/1 $\frac{dP}{dV} = -\frac{GM8}{V^2} = -\frac{G}{P^2} \cdot 4\pi g_c \left[\frac{r^3}{3} - \frac{r^4}{up} \right] \cdot g_c \left(1 - \frac{r}{R} \right) = (1),(5) M^{-33}$ = $-4768^{2} \left[\frac{r}{3} - \frac{r^{2}}{3R} - \frac{r^{3}}{4R} + \frac{r^{3}}{4R^{3}} \right] =$ $= \frac{4\pi6J_{c}^{2} \left[\frac{r}{3} - \frac{7r^{2}}{RR} + \frac{r^{3}}{4R^{2}} \right]}{R^{2} \left[\frac{r}{3} - \frac{7r^{2}}{2R} + \frac{r^{3}}{4R^{2}} \right]} = \frac{5}{370} \frac{5}{370} \frac{5}{370} \frac{5}{370} \frac{7}{370} \frac{5}{370} \frac{7}{370} \frac{5}{370} \frac{7}{370} \frac{7}{370}$

4/1 $(RO) = \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \frac{$

(7) T = TE MHS[R3-r]

(2) Po = 1015 dyne = 109 AEM

(3) Po = 6m2 (2) 182 (2) Enter (200 200)

(5) Pole = 3 a 74 (2) 15 (2) 15 (2) 200 (2) 20

(2) PG = 153.8 Con, WB 13 eves

7 845

שי נמן: משלני - כישה אורכבת אבורביב אמיב צשאים (1) h= 100pc-3 (3) = TR3 = 1.541022 cm2=1.610-15 [RG=715'cm] l= 10° 1.54.1023cm2 : 'es pr & 6.

[cm = 3.2410-19 pc = 100 1 (3.241515)2 Pc 77, 15) [= 6.186 1023 Per ery Bovery 1'2. " 101 1800 V = 200 4m = 6.5 10-12 pc [50 13 N5-32 5 4) $\Gamma = \frac{V}{I} = 6.510^{-12pc} \cdot \frac{1}{6.13610^{23}pc} = 10^{-35} \cdot \frac{1}{5pc} = 3.310^{-28} \cdot \frac{1}{5pc}$ Arein and 3000 16 1000 1000 000 000 100 cols - 2010 cols cols - 2000 colored color - 2000 colored color - 2000 colored colored color - 2000 colored colore erings) Wern medé is

(1)
$$f_{c} = \frac{1}{14.10} = 1.4.10^{6} erg$$

(2) $R_{b} = 6400 \text{ km}$

(3) $V = \pi R_{b}^{2} = 1.310^{8} \text{ km}^{2}$

(4) $r_{c} = \frac{1}{13.08} = 1.310^{8} \text{ km}^{2}$

(5) $r_{c} = \pi R_{b}^{2} = 1.310^{8} \text{ km}^{2}$

(6) $r_{c} = r_{c} =$