We know $\beta = \frac{1}{12\pi\sigma^2 n}$, $m = 6 \times 10$ J^{m} , p = 0.178 gm/cc $m = \frac{9}{m} = \frac{0.178}{6 \times 10^{-24}} = 29.7 \times 10^{18} / ce$ as mn = 50 a = 28.5 × 10 cm. $e^2 = \frac{1}{12\pi n A} = \frac{1}{\sqrt{12.14 \times 29.7 \times 28.5}}$:. $\sigma = 1.63 \times 10^{-8}$ cm. $\lambda = \frac{1}{\sqrt{2\pi} n}$, $\sqrt{2\pi} \frac{1}{\sqrt{2\pi} n}$ 122.14 P= nkt. $8. n = \frac{96 \times 13.6 \times 981}{1.38 \times 10^{-16} \times 273} =$ $A = \frac{1}{\sqrt{2\pi}\sigma^2 n}$ = $\frac{323}{\sqrt{2\pi}\sigma^2 n}$ = $\frac{1.38 \times 10^{46} \times 243.15}{2}$ V2 T x 9 x 10 76 x 76 x 13. 6 x 981 = 9.28 × 10 6 cm. 2 = 1 12 kgh $3000^2 = \frac{1}{\sqrt{2} \sqrt{2}} = \frac{1}{\sqrt{2.79 \times 10^{25}} \times 3.14 \times 2.2 \times 10^{-9}}$ $\sigma^2 = 0.036 \times 10^{-17}$ $\sigma = 0.06 \times 10^{-8} \text{ m}$ = 6,05571000 m