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2) Haraunaa mennepanypa nyegrenna T = 2000 K. На сполько кельвинов изпечилась эта тешпература, ест дина воени, на которую принодитья ивкинизи uznyrema, ybenirmace na 260 mm. Dano: Demenne: 3 abrumeseme marcungua T = 2000K guma bauen om meunepamypen no zanony at = 260 | mengerma Buna mueem buy; $\lambda = \frac{1}{4}$ Ranmi, ∆T-? ∆ λ = \(\frac{b}{T_1} - \frac{b}{T_1} \); $T_1 = (\Delta \lambda + \frac{b}{T}) = \frac{2,9 \cdot 10^3}{260 \cdot 10^3 + \frac{2,9 \cdot 10^{-3}}{2000}} = 7160,5(K)$ oT= 7160,5-2000 = 5160,5(k) anbem: DT=5160,5 K.

3) Onneghumb benviury reptors nomenguata bojoym-gerner amour bogoposo a nomenguata ero nomizayum. Bornaums grupes boix, racmones u boundere mais combenembyongus ubarmob. Dario: | Temerme: Menner Dienmora & amone, H na n-au ynobre: En = -13,6 \frac{1}{h^2} [3B] Hairm: $U_1 = 4E = E_2 - E_1 = -\frac{3.49 + 13.6}{1.6 - 15^{-19}} = 10.2 (B)$ U, -? U; = A; - hv = h = hRc (1 - 1), n = 0 A_i - pasoma ygaienna zienmierta c opsumin $U_i = \frac{A_i}{e} = \frac{hcR}{e} = \frac{6,62 \cdot 10^{34} \cdot 3,29212 \cdot 10^{15}}{1,6 \cdot 10^{-19}} = 13,621(B)$ U;-?

4) Jacensmynn orlers navenormie majun nacco m = 1 m. Tyens ero nacomercie enpegaciero c reannegerépersames 1x = 10° an. Harin reannegerennam спорости тарика. Dano: 1 Temerne injurium reongrégaiensemen m = 10°2 Tenzendepra; AX. Apx > h 0× = 10 m Apx = m·A> $\Delta V = m = mh = 10^{\circ} \cdot 1.0546.10^{\circ}$ $\Delta P \times 2\pi\Delta \times = 10^{\circ}$ Harimi, DV-? DU = 1,0546.10 anbem: 00 = 1,0546.10

5) Vacmuyor 6 nomenquarismon rue unpurpour a Hanogumea 6 boyong magerine comosimum (n=2), Onnegeume, b karun mornar ymephana (O<x <a) momnoms вераятности нахотдения гастия максинальна и numeralossa. Venz ona pabria? Pemerue narcrumo magour. Dans. Temesme: ben-me organymums isemmy n=2, a | b unmerbase om x go x+dx bornamsemas goop-Hariami; myrori $dW = |\psi(x)|^2 dx$, rge $|\psi(x)|^2 - neomnoems$.

Beg-mu. x-? $|y(x)|^2 = \frac{2}{a} \sin^2\left(\frac{2\pi x}{a}\right)$ 14(x) | nancoursa you sin (2tx) = ±1 2 TX - TK KEZ X - ak KEZ, ymmerbaa Ocxca: X = 2 /y(x) = ununausia npu sin(2) = 0 $\frac{2\pi x}{3} = \frac{\pi}{2} + \pi k, k \in \mathbb{Z}$ $x = \frac{1}{4}a + \frac{ka}{2}, k \in \mathbb{Z}, y \text{ cumulax } 0 < x < a; x = \begin{bmatrix} \frac{1}{4}a \\ \frac{3}{4}a \end{bmatrix}$ Ombeni usnemnyn; $x = \frac{3}{2}$ unnungn; $x = \frac{3}{4}$ u $x = \frac{3}{4}$