Problem (

$$\frac{hR}{12} = -hR\left(\frac{1}{16} - 1\right) = 6.82 \cdot 10^{-27} \text{ J}$$

Let's try this with R= 3.29E15 like anormal proson.

$$(y' - hR(\frac{1}{16} - 1) = 2.04 = -18$$

(2):
$$-hR\left(\frac{1}{64} - \frac{1}{9}\right) = 2.08E-19$$

(3):
$$-hR\left(\frac{1}{6}-\frac{1}{4}\right)=4,09E-19$$

Problem 2

(0: 4.13.6 = 54.4eV = 8.716E-18 J

(2); E = h V = 11

 $\chi V = C \Rightarrow \pi V = \frac{C}{\lambda}$

 $\mathbb{E} 8.716 = \frac{hc}{\chi} \Rightarrow \chi = 22.8 \text{ nm}$

Of Schrodinger's trum equation tells us about the tight frequence -cies of light energized atoms will emit and absorb.