$$V(r) = -\frac{1}{4\pi\varepsilon\varepsilon_0}\frac{Ze^2}{r} \quad \text{(Potential Energy)}$$

$$T = \frac{1}{2} m^* v^2 \quad \text{(Kinetic Energy)}$$

$$e = 1.6 \times 10^{-19}\ C$$

$$m^* \cong m_e/10 \quad \text{(10 times lighter electron!)}$$

$$\varepsilon \cong 10 \quad (\varepsilon = 1 \text{ in vacuum})$$

$$r_n = ?$$

$$E_n = ?$$