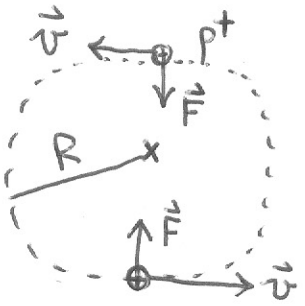
2.) $B = 0{,}2 \frac{Vs}{m^2}$ $v = 10^5 \frac{m}{s}$ $\vec{v} \perp \vec{B}$ $m_p = 1{,}6 \cdot 10^{-27}\,kg$ $q = e = 1{,}6 \cdot 10^{-19} C$

$R = ?$



$\boxed{\vec{F} = q\vec{v} \times \vec{B}}$ $\boxed{\vec{F}_e = m\vec{a}}$ $\boxed{a_{cp} = \frac{v^2}{R}}$

$F_e = m_p \frac{v^2}{R} = F = qvB = evB$ $(\alpha = 90° \rightarrow \sin\alpha = 1)$

$$m_p \frac{v^2}{R} = evB$$

$$\Downarrow$$

$$\underline{\underline{R}}$$