$$Q = \pi/4$$

$$l = 5m$$

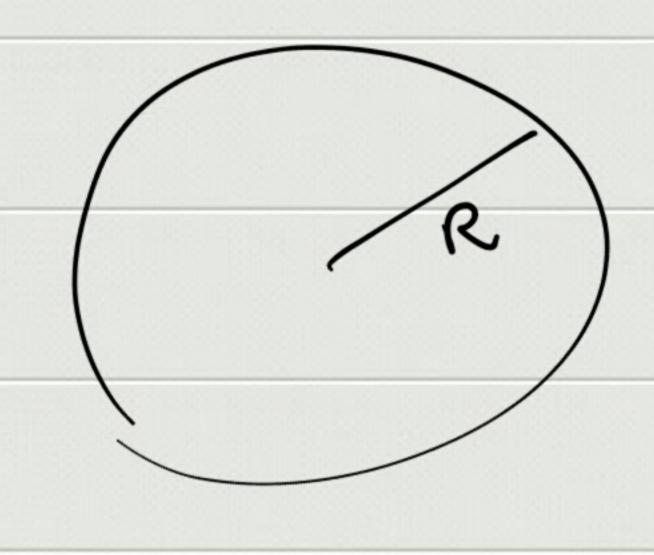
$$N_0 = 30 \text{ m/s}$$

$$C : (x_c, y_c)$$

$$- \bar{\pi}(t) = \bar{\chi}_{0} + \bar{\chi}_{0} + \frac{1}{2} \bar{a} +$$

$$\begin{cases} x(t) = l + \sqrt{5}t \\ y(t) = -\frac{1}{2}gt^2 \end{cases} \qquad \begin{cases} x_c = x(t_c) \\ y_c = y(t_c) \\ x_c = -y_c \end{cases}$$

$$R = xc\sqrt{2} = 273.5 m$$



$$\int_{m=}^{\infty} \frac{\Delta \sigma}{\Delta t} = \frac{2\pi R}{\tau} = 15.7 \text{ m/s}$$

$$-2\pi R = \frac{1}{2}q_{7}T^{2} \implies q_{7} = \frac{4\pi R}{T^{2}} = 0.52 \text{ m/s}^{2}$$

$$\alpha = \sqrt{2^2 + 2^2}$$

$$\alpha = \sqrt{2}$$

$$\alpha = \frac{\sqrt{2}}{2}$$

$$\sqrt{(t)} = 2 + t$$

$$\Rightarrow \alpha = \sqrt{Q_{\tau}^2 + \left(\frac{Q_{\tau}^2 t^2}{R}\right)^2} = Q_{\tau} \sqrt{1 + \frac{Q_{\tau}^2 t^4}{R^2}} = Q_{\tau}(t)$$