

e-07-4-10

$$v(t) = At^2$$

$$v_{||}(t) = v(t) = At^2$$

From the dot law with

$$\text{with } \frac{v_{||}}{R} = \frac{A}{R} t^2$$

$$\theta(t) = \frac{A}{3R} t^3$$

$$\vec{r}(t) = (R \cos \theta(t), R \sin \theta(t))$$