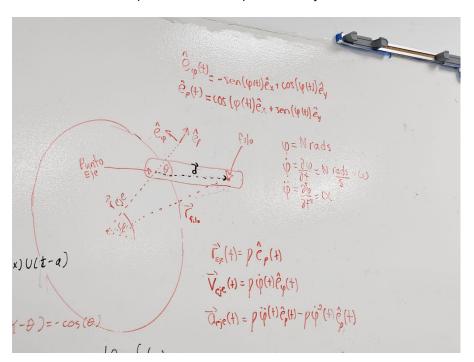
Se describe el comportamiento del punto del eje de la cuchilla:



$$\begin{split} \widehat{e}_{\varphi} &= -sen(\varphi(t))\widehat{e}_x + cos(\varphi(t))\widehat{e}_y \\ \widehat{\rho}_{\varphi} &= cos(\varphi(t))\widehat{e}_x + sen(\varphi(t))\widehat{e}_y \\ \varphi &= Nrads \\ \dot{\varphi} &= \frac{\partial \varphi}{\partial t} = N\frac{rad}{s} = \omega \\ \ddot{\varphi} &= \frac{\partial^2 \varphi}{\partial t^2} = \alpha \\ \overrightarrow{r}_{Eje}(t) &= \rho \widehat{e}_{\rho}(t) \\ \overrightarrow{V}_{eje}(t) &= \rho \dot{\varphi}(t)\widehat{e}_{\varphi}(t) \end{split}$$

$$\overrightarrow{a}_{eje}(t) = \rho \ddot{\varphi}(t) \hat{e}_{\rho}(t) - \rho \dot{\varphi}^{2}(t) \hat{e}_{\rho}(t)$$

Postulados $\overrightarrow{r}_{filo} = \overrightarrow{r}_{eje} + \overrightarrow{d}$

1. Cuando θ es 0, $\overrightarrow{r}_{filo}$ es igual $a \mid \overrightarrow{r}_{eje} \mid + \mid \overrightarrow{d} \mid$

Cuando θ es π , $\overrightarrow{r}_{filo}$ es igual a $|\overrightarrow{r}_{eje}| - |\overrightarrow{d}|$

$$d = |\overrightarrow{r}_{eje} - \overrightarrow{r}_{filo}|$$