


UTF8hei

$$\theta \Delta \theta xy$$


$$\Delta x = -PQ \sin \theta = -r \Delta \theta \frac{y}{r} = -y \Delta \theta$$

$$\Delta y = +x \Delta \theta$$

$$\Delta t:$$

$$|\Delta \mathbf{r}| = r \Delta \varphi$$

$$|\Delta \mathbf{v}| = \lim_{\Delta t \rightarrow 0} \frac{|\Delta \mathbf{r}|}{\Delta t} = r \lim_{\Delta t \rightarrow 0} \frac{|\Delta \varphi|}{\Delta t} = \omega r$$