$$R_{\theta}(\vec{s}) = R_{\theta}(\vec{t} + \vec{u})$$

$$= \vec{t} + R_{\theta}(\vec{u})$$

$$= \vec{t} + \vec{w}$$

$$\hat{v} = (\cos \theta)\vec{u} + (\sin \theta)\vec{v}$$

$$\vec{k}$$

$$\vec{k}$$