find corretor components for a giron change of bans in Ex

$$\widehat{V} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} \times (\widehat{V}) = V^{1} + V^{2}$$

what are the components of \(\tilde{\tau} \) and \(\delta(\tilde{\ti

$$\frac{2}{\sqrt{3}} = \frac{2}{\sqrt{3}} = \frac{2$$

$$\tilde{\varphi}(\tilde{v}) = F \varphi_i$$
 and $\tilde{B} = F^{-1} \sin \alpha F i = 0$ an orthonormal. I rome formation

$$3.F = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} = I.$$

So
$$\sqrt[N]{i} = \begin{bmatrix} \cos x & \sin x \\ -\sin x & \cos x \end{bmatrix} \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} \cos x + \sin x \\ -\sin x + \cos x \end{bmatrix}$$

$$\alpha' = [n \quad 1] \left[\begin{array}{c} \cos \alpha & -\sin \alpha \\ \sin \alpha & \cos \alpha \end{array} \right] = \left[\begin{array}{c} \cos \alpha + \sin \alpha & \sin \alpha + \cos \alpha \\ \end{array} \right]$$

so we have
$$\alpha$$
, $\equiv J$

so we have α , $\in J^i$ because the transformation was orthonormal. Let's try with another transformation