Prysics Sa

Vector 3 Frances

Dens Delivers

1 TENSARS

$$J' = \sum_{k=1}^{2} P_{ik} A_{k}$$

$$T' = \sum_{k=1}^{2} P_{ik} A_{k}$$

$$Z = \begin{bmatrix} cos & sin & 0 \\ -sin & cos & 0 \end{bmatrix}$$

$$T_{12} = \sum_{k,i}^{2} \sum_{l=1}^{2} Z_{1k} Z_{2l} T_{kl}$$

$$= T_{11} Z_{11} Z_{21} + T_{21} Z_{12} Z_{21} + T_{12} Z_{12} Z_{22} + T_{22} Z_{12} Z_{22}$$

$$= T_{11} Z_{11} Z_{21} + T_{21} Z_{12} Z_{21} + T_{12} Z_{12} Z_{22} + T_{22} Z_{12} Z_{22}$$

$$= T_{11} Z_{12} Z_{21} + T_{21} Z_{22} Z_{22} + T_{22} Z_{22} Z_{22} + T_{23} Z_{24} Z_{22}$$

$$T_{22} = \sum_{k=1}^{2} \sum_{k=1}$$

T' = T' = 0

T' = gir 0 (5) 0 - 100 sin 0 = 0

T' = 312 9 + 6 2 0 = 1

2. Brees OF VECTA2 SPACES

$$\vec{V} \cdot a\hat{x} + b\hat{y} + c\hat{x}$$
 $\vec{V} \cdot a\hat{x} + b\hat{y} + c\hat{x}$ 
 $\vec{V} \cdot a\hat{x} + \beta\hat{b} + \gamma\hat{c}$ 
 $\vec{A} \cdot a(\frac{1}{2}) = \vec{B} \cdot a(\frac{1}{2}) = \vec{A} \cdot a(\frac{1}{2}) = \vec$ 

$$\beta = \frac{1}{2} \left( -a + b + c \right)$$

$$\gamma = \frac{1}{2} \left( -a + b + c \right)$$

$$Sinh(a) = \frac{e^{\alpha} - e^{-\alpha}}{2}$$
  $Sinh(a) = \frac{e^{\alpha} + e^{-\alpha}}{2}$ 

$$sinh(*) = e^{x} - e^{-x}$$
 $sinh(*) = e^{x+a} - e^{-x-a}$ 

$$= d\left(\frac{e^{x}-e^{-x}}{2}\right) + B\left(\frac{e^{x+x}-e^{-x-a}}{2}\right)$$

= -dsinh(x)-Bsinh(x+a)

$$x = d \sinh(-x) + \beta = i \ln \left(-x + \frac{1}{2}\right) + \beta = x + \frac{1}{2} + \frac{1}{$$

$$\frac{\sinh(x)}{\sinh(x)} = \frac{\sinh(x+a)}{\sinh(x)} = \frac{e^{-x}}{\sinh(x)}$$

$$\frac{\sinh(x)}{\sinh(x+a)} = \frac{e^{-x}}{\sinh(x+a)}$$

$$\frac{\sinh(x+a)}{\sinh(x+a)} = \frac{e^{-x}}{\sinh(x+a)}$$

$$sinh(x) - sinh(x+a)$$

$$\frac{1}{sinh(x+a)}$$

$$\frac{1}{sinh(x+a)}$$

$$\frac{2\pi i \pi(\pi)}{2\pi i \pi(\pi)} = \frac{\pi}{2\pi i \pi} = \frac{\pi}{$$

$$\frac{\pi_{1} \cdot \begin{pmatrix} 1 \\ -1 \end{pmatrix}}{\pi_{2} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{2} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{3} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{3} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{4} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}} \frac{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_{5} \cdot \begin{pmatrix} -1 \\ -1 \end{pmatrix}}{\pi_$$

$$\frac{1}{49/100} = \begin{pmatrix} 49/100 \\ -7/100 \\ -7/100 \\ 49/100 \end{pmatrix}$$

$$\frac{1}{49/100} = \sqrt{\frac{49^2 \cdot 49 + 49 \cdot 49^2}{100^2}}$$

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