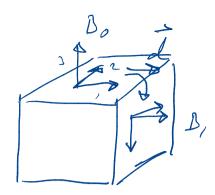
ADC DAY 22: MAZE ON CUBE



$$\vec{\lambda} = a\hat{\chi}_{0} + b\hat{y}_{0}$$

$$\vec{\lambda} = a\hat{y}_{0} + (-b)\hat{\chi}_{0}$$

$$\vec{\lambda} = a\hat{y}_{0} + (-b)\hat{\chi}_{0}$$

R: |-n>(d| + |d> (n| + |d+) (d+)

IN DASIS Ba, R can DE EXPRESSED AS

$$R = Bd \left(\begin{array}{c} +1 \\ -1 \end{array} \right) Bd^{T} = BARdA^{T}B^{T}$$

$$Rd \qquad OPER$$

THE ROTATION BASES ZS

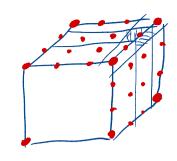
$$AR_dA^T = \begin{pmatrix} a & -b \\ b & a \\ & 1 \end{pmatrix} \begin{pmatrix} 1 & 1 \\ -1 & 1 \end{pmatrix} \begin{pmatrix} a & b \\ -b & a \\ & 1 \end{pmatrix}$$

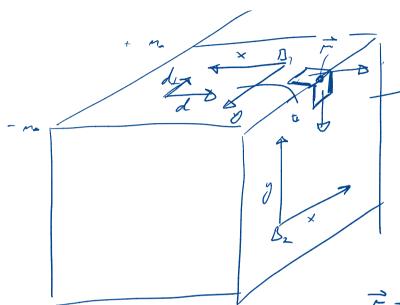
$$= \begin{pmatrix} b^{1} - ab & a \\ -ab & a^{1} & b \\ -a & -b \end{pmatrix}$$

OPENATIONS NEEDED

SURF, dp - NEW SURF

- do to NEW do, com





$$\begin{pmatrix} x' \\ y' \\ o \end{pmatrix} = \mathcal{B}_2 \mathcal{B}_d \begin{pmatrix} -n_1 \\ u \\ o \end{pmatrix}$$

$$\vec{r} = \mathcal{B}_{i} \begin{pmatrix} 2p_{x}^{(i)} - m_{-} \\ 2p_{x}^{(i)} - m_{-} \\ m_{-} \end{pmatrix} y_{i} = 1, 2$$

$$\begin{pmatrix} x_{1} \\ y_{2} \\ PL \end{pmatrix} = \underbrace{B_{2}^{T}B_{1}}_{2} \begin{pmatrix} x_{1} \\ x_{2} \\ n_{-} \end{pmatrix}$$

$$M = \left(\left(\begin{array}{c} B_{2}^{T}n_{1} \\ \end{array} \right) \quad B_{2}^{T}n_{1} = \begin{pmatrix} d_{x} \\ d_{y} \\ 0 \end{pmatrix}$$