uv= 1/2 (4,45)e, 一声一点即 vu(w)uV いこ 造+造のの 一年一年1000年100年1 一(元十定日日)(元日一定日子七日 - Jz eze, ez = (=+ == ==) == (e,+e,) = = (1 + e, ez) (2e1)

Row =
$$\begin{pmatrix} \cos\theta & -\sin\theta \\ \sin\theta & \cos\theta \end{pmatrix}$$

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Rx = rotation around x-axis by TT yz place notation: $R_{x} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & \cos T & -\sin T \\ 0 & \sin T & \cos T \end{pmatrix} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & -1 \end{pmatrix}$ $R_{X}\begin{pmatrix} \omega_{X} \\ \omega_{y} \end{pmatrix} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & -1 \end{pmatrix}\begin{pmatrix} \omega_{X} \\ \omega_{y} \\ \omega_{z} \end{pmatrix} = \begin{pmatrix} \omega_{X} \\ -\omega_{y} \\ -\omega_{z} \end{pmatrix}$

Raky Rx = I Rxky = Ra fine fine y, a

fine

f

rotation in ever plane by TT need x, v w rotated (vu) w (uv) = by I in all place (20 = TT) => w'= (201) (wxe, + wyez + wzez) (e,ez) 0=7/2 = Plet u=e1 = Wx ezelekisz VERZ + Wy ezerezer 1 WE GEGETERS = - Wye1 - Wyez + Wze3 = rotation in e. er place rotation Z-axis W'= (e21) W(e1e2) W=RZW (e,e2)le2e3)=(e,e3) RxRy=Rz rotation · rotation = rotation