Jema

June 2 1) li) T: E3 -> E3

T(e) = exter

T(e3) = e3+e1

Bo e ortogondo

$$J = \begin{pmatrix} 1 & 0 & 1 \\ 1 & 1 & 0 \\ 0 & 1 & 1 \end{pmatrix}$$

mate assoc his T in rap cubo (herse ortonomoto)

et T transf. ortog?

este Tostogonale?

Est Tostogonale?

J-J* = (110) (011) z (211)

1 21

2) J ma e ostogonale > T me e transf ostogonale

T (e2) = e20e3

T:
$$f_3 \rightarrow f_3$$

T(e_1) = $\frac{2}{3}e_1 + \frac{2}{3}e_2 - \frac{1}{3}e_3$

T(e_2) = $\frac{2}{3}e_1 - \frac{1}{3}e_2 + \frac{2}{3}e_3$

T(e_3) = $-\frac{1}{3}e_1 + \frac{2}{3}e_2 + \frac{2}{3}e_3$

Bo a continuous dis

 $J = \begin{pmatrix} \frac{2}{3} & \frac{7}{3} & \frac{1}{3} & \frac{1}{3}$