82. (A) Zanis means only third vector has
to be ronzew.

(B) X-y plane means, 1St le 2nd vector hon

$$\begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \\ 0 & 0 & 0 \\ 3 \times 3 \end{bmatrix}$$

93. Vector projection of vonto V

Proj
$$V = \frac{U \cdot V}{11 \cdot V \cdot 11^2} \cdot V$$

$$||V|| = \sqrt{x_1^2 + y_1^2 + z_1^2} = \sqrt{3}$$

$$= \left(\frac{5}{(5)^2} \right)$$

$$proj_{V} = \left(\frac{5}{3}\right) \left(\frac{1}{3}\right)$$

$$e = \begin{pmatrix} 1 \\ 2 \end{pmatrix} - \begin{pmatrix} 5/3 \\ 5/3 \\ 5/3 \end{pmatrix}$$

$$C.V=0 = \begin{bmatrix} -2/3 \\ 1/3 \\ 1 \end{bmatrix} = 0$$

$$\frac{-2}{3} + \frac{1}{3} + \frac{1}{3} = 0$$