$= \frac{2}{2} \frac{7}{2} : \left( = \frac{2}{2} \frac{1}{2} \frac{1}{2} \right)$ Note Title

$$2 = a x^{2} + b x y + c y^{2}$$

$$= \left[x \quad y\right] \left[\begin{array}{c} a & \frac{b}{2} \\ \frac{b}{2} & G \end{array}\right] \left[\begin{array}{c} x \\ y \end{array}\right]$$

$$0 \approx |\mathcal{X}| = \frac{1}{2} = \frac$$

$$\frac{2}{a^2} \begin{vmatrix} a & \frac{b}{2} \\ \frac{b}{2} & c \end{vmatrix} = ac - \frac{b^2}{4} = \frac{aac - b^2}{4} > 0$$

$$xy = \frac{1}{2}$$

$$xy =$$

$$|\mathcal{Y}| = |\mathcal{Y}| = |$$

$$x_1^2 - y_1^2 = 2$$

$$\chi y = | A = \begin{bmatrix} \delta & \frac{1}{2} \\ \frac{1}{2} & 0 \end{bmatrix}$$

$$(x, y) \begin{bmatrix} 0 & \frac{1}{2} \\ \frac{1}{2} & 0 \end{bmatrix} \begin{bmatrix} \chi \\ 1 \end{bmatrix} | \lambda - \lambda - \frac{1}{2} | \lambda - \frac{1}{4} = 0$$

$$|\lambda - \lambda| = |\lambda - \frac{1}{2} | \lambda - \frac{1}{4} = 0$$

$$|\lambda - \frac{1}{2} | \lambda - \frac{1}{4} = 0$$

A 27 th 728 to 
$$2 \pm 2 + 20$$
 to  $2 \pm 2 + 20$  to  $2 \pm 2 + 20$  to  $2 \pm 2 \pm 2 = 2$ 

$$A = Q \begin{bmatrix} \frac{1}{2} & -\frac{1}{2} \end{bmatrix} Q^{T}$$

$$xy = 1 \Rightarrow C^{x} y \begin{bmatrix} 0 & \frac{1}{2} \end{bmatrix} \begin{bmatrix} y \\ \frac{1}{2} & 0 \end{bmatrix} \begin{bmatrix} y \\ y \end{bmatrix} = 1$$

$$C^{x} y \begin{bmatrix} 0 \end{bmatrix} \begin{bmatrix} \frac{1}{2} & -\frac{1}{2} \end{bmatrix} Q^{T} \begin{bmatrix} y \\ y \end{bmatrix} = 1$$

$$C^{x} y \begin{bmatrix} 2 \end{bmatrix} = Q \begin{bmatrix} 2 \end{bmatrix} \begin{bmatrix} 2 \end{bmatrix}$$

$$C^{x} y \begin{bmatrix} 2 \end{bmatrix} = Q \begin{bmatrix} 2 \end{bmatrix} \begin{bmatrix} 2$$

$$[x, y] = [x, y] (0)$$

$$[x, y] = [x, y] (0)$$

$$\frac{1}{2}\chi_{1}^{2} - \frac{1}{2}y_{1}^{2} = 1$$

$$\chi_{1}^{2} - y_{1}^{2} = 2$$

$$1. = \chi \overrightarrow{x} \stackrel{?}{\underset{?}{\stackrel{?}{\nearrow}}} \stackrel{?}{\underset{?}{\nearrow}} \stackrel{?}{\underset{?}{$$

$$8 \frac{1}{4} = (2(x_1, x_2, x_3)) = [x_1, x_2, x_3] \begin{cases} 1 & 2 & 2 \\ 2 & 1 & 2 \\ 2 & 2 & 1 \end{cases} \begin{cases} x_1 \\ x_2 \\ x_3 \end{cases}$$

$$|\lambda_1 - A| = \begin{vmatrix} \lambda_{-1} & -2 & -2 \\ -2 & \lambda_{-1} & -2 \end{vmatrix} = (\lambda_{-5}) \begin{vmatrix} 1 & 1 & 1 \\ -2 & \lambda_{-1} & -2 \\ -2 & -2 & \lambda_{-1} \end{vmatrix}$$

$$= (\lambda_{-5}) \begin{vmatrix} 1 & 1 & 1 \\ 0 & \lambda_{+1} & 0 \end{vmatrix} = (\lambda_{-5}) (\lambda_{+1})^2$$

$$= (\lambda_{-5}) \begin{vmatrix} 1 & 1 & 1 \\ 0 & \lambda_{+1} & 0 \end{vmatrix} = (\lambda_{-5}) (\lambda_{+1})^2$$

$$\lambda_{1} = 5 \cdot \lambda_{2} = \lambda_{3} = -1$$

$$\lambda_{1} = 5 \text{ or } (51 - A) X = 0 \quad \begin{bmatrix} 4 & -2 & -2 \\ -2 & 4 & -2 \\ -2 & -2 & 4 \end{bmatrix} \begin{bmatrix} x_{1} \\ x_{2} \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

$$\begin{bmatrix} 2 & -1 & -1 \\ 1 & -2 & 1 \\ 1 & 1 & -2 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 1 & -2 \\ 0 & -3 & 3 \\ 0 & -3 & 3 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 1 & -2 \\ 0 & 1 & -1 \\ 0 & 0 & 0 \end{bmatrix}$$

$$\begin{bmatrix} 1 & -2 & 1 \\ 1 & -2 & 1 \\ 0 & -3 & 3 \end{bmatrix} \rightarrow \begin{bmatrix} 0 & 1 & 1 \\ 0 & 1 & -1 \\ 0 & 0 & 0 \end{bmatrix}$$

$$\lambda_{2} = -1 \text{ or } (-\hat{1} - A) X = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \qquad \begin{pmatrix} -2 & -2 & -2 \\ -1 & -2 & -2 \end{pmatrix} \begin{pmatrix} X_{1} \\ X_{2} \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \frac{1}{\sqrt{2}} \frac$$

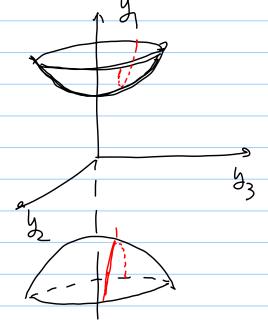
$$= \begin{bmatrix} \chi_1 & \chi_2 & \chi_3 \end{bmatrix} \widehat{P} \begin{bmatrix} J & -1 & -1 & J \\ \chi_2 & \chi_3 \end{bmatrix}$$

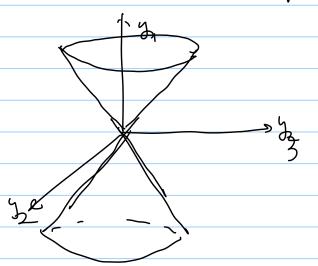
$$-ta Q = [3. 3. 3] \begin{bmatrix} 5 & -1 \\ -1 \end{bmatrix} \begin{bmatrix} 3 \\ 2 \\ 33 \end{bmatrix}$$
$$= 5y^2 - y^2 - y_3^2$$

2i0:  $Q(x_1, x_2, x_3) = x_1^2 + x_2^2 + 4x_1x_2 + 4x_1x_3 + 4x_1x_3 = 1$   $Eif(x_1, x_2, x_3) = x_1^2 + x_2^2 + 4x_1x_2 + 4x_1x_3 + 4x_1x_3 = 1$   $Q(x_1, x_2, x_3) = 0$   $Eif(x_1, x_2, x_3) = 0$ 

$$Q(x_1, x_2, x_3) = 1 = 3 + 3 - 3 - 1$$

$$22 + 22 = 3 - 1$$





二) -2< 七< /

Note: 
$$\vec{a} \times \vec{b} = \rightarrow \vec{b} \times \vec{a}$$

$$\vec{i} \times \vec{j} = \vec{k} \quad \vec{j} \times \vec{k} = \vec{i} \quad \vec{k} \times \vec{i} = \vec{j}$$

$$\vec{i} \times \vec{i} = \vec{j} \times \vec{j} = \vec{k} \times \vec{k} = \vec{0}$$

$$\vec{k} \quad \vec{j} \quad \vec{j} \quad \vec{k} \quad \vec{k} = \vec{k} \times \vec{k} = \vec{0}$$

$$\vec{k} \quad \vec{j} \quad \vec{k} \quad \vec{k} = \vec{k} \times \vec{k} = \vec{0}$$

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$$= a_{1}b_{2} \vec{k} - a_{1}b_{3}\vec{j} - a_{2}b_{1} \vec{k} + a_{2}b_{3}\vec{i}$$

$$+ a_{3}b_{1}\vec{j} - a_{3}b_{2}\vec{i}$$

$$= (a_{2}b_{3} - a_{3}b_{2})\vec{i} - (a_{1}b_{3} - a_{3}b_{1})\vec{j} + (a_{1}b_{2}-a_{2}b_{1})\vec{k}$$

$$= \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ a_{1} & a_{2} & a_{3} \\ b_{1} & b_{2} & b_{3} \end{vmatrix}$$

$$= \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ a_{1} & a_{2} & a_{3} \\ b_{1} & b_{2} & b_{3} \end{vmatrix}$$

$$= \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ a_{2} & a_{3} \\ b_{1} & a_{2} & a_{3} \\ a_{3} & a_{4} & a_{5} \end{vmatrix}$$

$$\frac{\vec{a} \times \vec{b} = \vec{i} \quad \vec{j} \quad \vec{k}}{1 \quad 2 \quad 3}$$

$$\frac{\vec{a} \times \vec{b} = \vec{i} \quad \vec{j} \quad \vec{k}}{2 \quad 4 \quad 0}$$

$$= -(2\vec{i} \quad +6\vec{j} \quad +0\vec{k})$$

$$\frac{\vec{a} \times \vec{b} = \vec{a} \times \vec{b} = \sqrt{180} = 6\sqrt{5}.$$

$$(2)$$
  $(2)$   $(3)$ 

2)点面以治程:

$$\frac{(2)}{x^{2}} \begin{cases} x-2y+8=1 \\ 2x+y-2z=-2 \end{cases}$$

131: mxm= {1,-2,1} x {2,1,-2}

$$\frac{1}{1} \frac{1}{5} 2^{2} \cdot \begin{cases}
 \chi - 2y + 2 = 1 \\
 2\chi + y - 2\delta = -2
\end{cases}$$

$$\frac{2}{2} = 0 \quad \begin{cases}
 \chi - 2y = 1 \\
 2\chi + y = -2
\end{cases}$$

$$\frac{2}{2} = 0 \quad \begin{cases}
 \chi - 2y = 1 \\
 2\chi + y = -2
\end{cases}$$

$$\frac{3}{2} = 0 \quad \begin{cases}
 \chi - 2y = 1 \\
 2\chi + y = -2
\end{cases}$$

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