IN
$$\alpha \neq 0$$
 or $\pi \neq 0$ to $\alpha' = \frac{1}{|\alpha|} \alpha$ $\pi' \neq i \leq n \geq 1$.

= 1.

1.191=1、 17 412日の正規地である.

TE :
$$X = \begin{pmatrix} 2 \\ \theta \end{pmatrix}$$
, $Y = \begin{pmatrix} -3 \\ -2 \end{pmatrix}$ or 7799 cos $\theta \in \mathcal{F}$ in \mathcal{F} .

$$\frac{7}{6}$$
: $(x, y) = -6 - 16 = -22$.

$$|X| = \sqrt{(X, X)} = \sqrt{4 + 64} = \sqrt{68} = 2\sqrt{17}$$
.
 $|Y| = \sqrt{(Y, Y)} = \sqrt{9 + 4} = \sqrt{13}$.

$$\therefore \cos \theta = \frac{(x,y)}{(x_1,y)} = \frac{-22}{2\sqrt{17} \cdot \sqrt{13}} = -\frac{11}{\sqrt{221}}.$$

おるに 日は日付とは南(日>900)である。

$$\frac{\sqrt{2}}{6}$$
 . $(x,y) = 46 + (2$

$$y=\begin{pmatrix} -3\\ -4 \end{pmatrix}$$
 , $y\in \mathbb{R}$ 正规化 $1>2$,

$$y' = \frac{1}{|y|} y = \frac{1}{\sqrt{9+16}} \begin{pmatrix} -3 \\ -4 \end{pmatrix} = \frac{1}{5} \begin{pmatrix} -3 \\ -4 \end{pmatrix} = \begin{pmatrix} -3/5 \\ -4/5 \end{pmatrix}.$$

$$\frac{10}{10} : Q = \begin{pmatrix} -1 \\ \beta \end{pmatrix}, \quad 1b = \begin{pmatrix} d \\ -3 \end{pmatrix}, \quad C = \begin{pmatrix} 1 \\ 0 \end{pmatrix} \quad 13 \times 20 \quad 20 \times 10 \quad 10 \times 10 \quad 20 \times 10 \quad$$

(iii) bとCりは7月日12 0<日<
$$\frac{\pi}{2}$$
. (90°)

4. P & F'M J.

$$|a| = \sqrt{(\alpha, \alpha)} = \sqrt{1 + \beta^2} = 2$$

:
$$1 + \beta^2 = 4^4 \iff \beta^2 = 4^3 \iff \beta = \pm 4^{\sqrt{3}}$$

$$x,7$$
 For 3 d, β is $\lambda = 78$, $\beta = 4\sqrt{3}$

$$-3\sqrt{3}$$