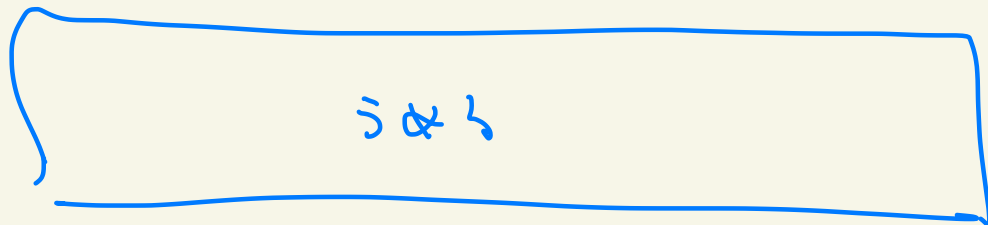


$$\alpha: \quad \underline{p}x + \underline{q}y + \underline{r}z + s = 0 \quad \begin{pmatrix} p \\ q \\ r \end{pmatrix} \neq \vec{0}$$

$$p \neq 0 \Rightarrow (-\frac{s}{p}, 0, 0) \text{ or } \alpha \cap \pi = \emptyset$$

$$q \neq 0$$

$$r \neq 0$$



平面公式.

III

$$(x_0, y_0, z_0) \text{ or } \alpha \ni \frac{p}{\sqrt{p^2+q^2+r^2}} \neq 0$$

$$px + qy + rz + s = 0$$

$$px_0 + qy_0 + rz_0 + s = 0$$

$$\begin{pmatrix} p \\ q \\ r \end{pmatrix} \cdot \begin{pmatrix} x-x_0 \\ y-y_0 \\ z-z_0 \end{pmatrix} = 0$$

$$p(x-x_0) + q(y-y_0) + r(z-z_0) = 0$$