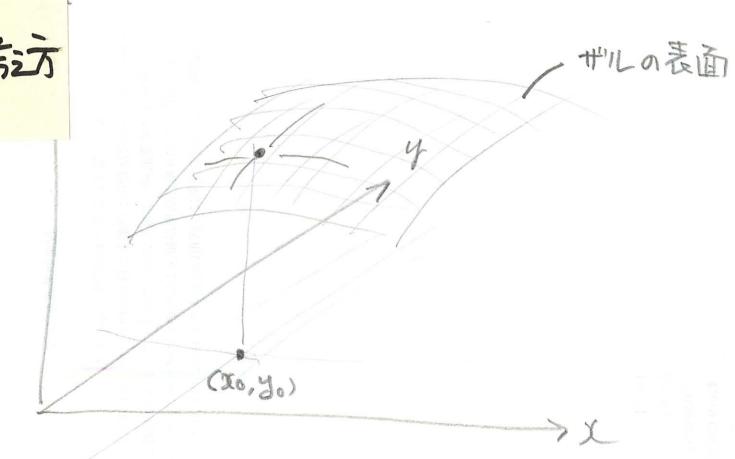
二安約千

微分。考达

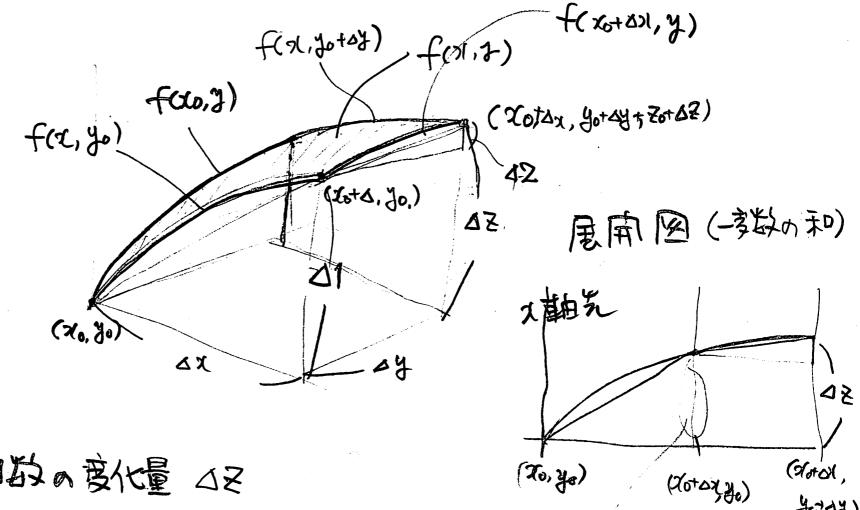


2度数|実証之と
$$7^{5}$$
 7
$$Z = f(x, y)$$

$$= 4x^{2} + y^{2}$$

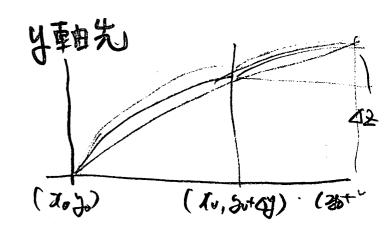
$$= 4x^{2} +$$

少曲統
$$Z = f(xo, y)$$
 (42年面平行) = 4xot y² 4xo
 $yo = xrb$ も

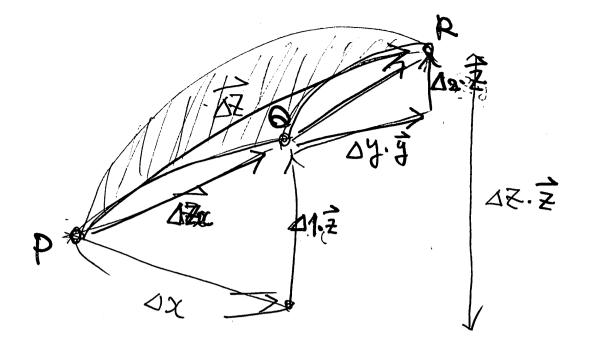


2致数割数。变化量 02

Dim ロマ= dを(全術分) 4y→0 全成为的变化量。合計



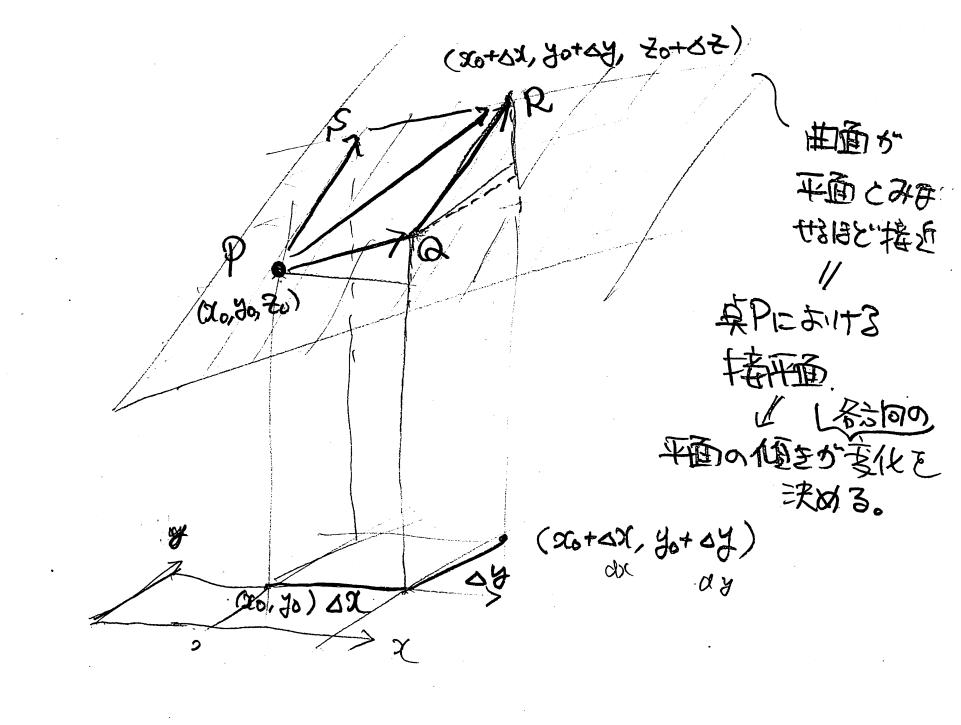
(कि.स





べかして考えることにする

$$\overrightarrow{p_R} = \overrightarrow{\Delta Z} = \Delta x \widehat{x} + \Delta y \cdot \overrightarrow{y} + (\Delta 1 + \Delta 2) Z$$



$$\begin{array}{ll}
\widehat{RR} = \Delta \widehat{x} \cdot \widehat{x} + \Delta \widehat{y} \cdot \widehat{y} + \Delta \widehat{z} \cdot \widehat{z} \\
&= (\Delta x, 0, \Delta 1) + (\Delta x, \Delta 2) \\
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\end{array}$$

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$$\begin{array}{ll}
\widehat{RR}$$

$$= (dx, dy, f_{x}(x_{0}, y_{0})dx + f_{y}(x_{0}, y_{0})dy)$$