WZLI.

C 全疆空间 早粉的 开闭 莲通、等概念。 P(21, 2)=12-21=12-12-21=1

有3空间的恒质 复值函数、恒振 建全函数、积为(阳底)、、

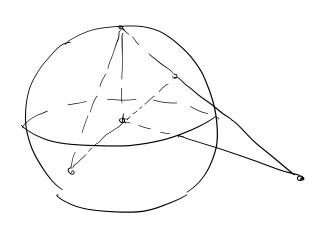
(學化) 色与s² 新加河 在s²上新加賀 打面几何。

1. \mathcal{O} C $\neq \alpha \pm \infty = \infty$ $\frac{4}{8} = 0$ $0 + b \cdot \infty = \infty$ $\frac{b}{a} = \infty$

$$\frac{2}{2} \cdot \frac{2 \times 1}{\left|2\right|^2 + 1} = -\frac{2 \times 2}{\left|\omega\right|^2 + 1}$$

$$\frac{2y_1}{(21^2+1)} = -\frac{2y_2}{(W^2+1)}$$

$$\frac{|z|^{2-1}}{|z|^{2+1}} = - \frac{|\omega|^{2+1}}{|\omega|^{2+1}}$$



$$\frac{\chi_1}{|\omega|^2+1} = \frac{-\chi_2}{|\omega|^2+1} \qquad \frac{|\omega|^2 \chi_1}{|+|\omega|^2} = \frac{-\chi_2}{|\omega|^2+1}$$

$$\frac{|\omega|^2 \chi_1}{|+|\omega|^2} = \frac{-\chi_2}{|\omega|^2 + 1}$$

$$|w|^2 \chi_1 = -\chi_{\nu}$$

$$14^2y_1 = -y_2$$

$$\frac{y_1}{y_1} = \frac{y_2}{y_2}$$

$$\Rightarrow z \cdot \overline{w} = (x_1 + iy_1) \times (x_2 - iy_2)$$

$$= \chi_1 \chi_1 + (\chi_2 y_1 - \chi_1 y_2) \hat{1} + y_1 y_2$$

=
$$[w_1^2(x_1^2) + [w_1^2(-y_1^2)]$$

$$\left(\frac{2x_{1}}{[2]^{2}+1}, \frac{2y_{1}}{[2]^{2}+1}, \frac{[2^{2}-1]}{[2^{2}+1]}\right)$$

$$\frac{2y_1}{(2!^2+1)} > \frac{[2!^2-1]}{(2!^2+1)}$$

$$\left(\frac{2 \times_2}{|\omega|^2 + 1}, \frac{2 y_2}{(\omega|^2 + 1)}, \frac{(\omega|^2 + 1)}{(\omega|^2 + 1)}\right)$$

$$\frac{|S|_{5}+1}{|S|_{5}-1}=-\frac{|M|_{5}+1}{|M|_{5}-1}$$

3.

$$\frac{2x_{1}}{|z|^{2}+1}+\frac{2x_{2}}{|w|^{2}+1}=\frac{2(|w|^{2}x_{1}+x_{2})}{|w|^{2}+1}$$

$$\Rightarrow \frac{y_1}{y_2} = \frac{y_4}{y_1} = t$$

$$t / \sqrt{2} + t / \sqrt{2} = -1$$

$$\Rightarrow \chi = (8)^2 \chi_2$$

$$\begin{aligned}
 & \psi(z) = \psi(x+iy) = \frac{2x}{|z|^2+1} \frac{2y}{|z|^2+1} \frac{|z|^2+1}{|z|^2+1} \\
 & \psi(\frac{1}{z}) = \psi(\frac{x+iy}{x^2+y^2}) \\
 & = \frac{2x}{|z|^2} \frac{2y}{|z|^2+1} \frac{|z|^2}{|z|^2+1} \\
 & = \frac{2x}{|z|^2+1} \frac{2y}{|z|^2+1} \frac{|z|^2}{|z|^2+1} \end{aligned}$$

$$= \left(\frac{2x}{(2|^2+1)}, \frac{2y}{(2|^2+1)}, \frac{1-(2|^2)}{1+(2|^2)}\right)$$

4.
$$\phi(z) = \int (z) + g(z) + h(z)$$

$$\begin{cases}
f(wz) = f(z) \\
g(wz) = wg(z) \\
h(wz) = wh(z)
\end{cases}$$

$$\frac{\text{Construction}}{f(z)} = \frac{\phi(z) + \phi(wz) + \phi(w^2z)}{3}$$

$$h(2) = \frac{\phi(2) + \omega \phi(\omega 2) + \omega^2 \phi(\omega^2 8)}{3}$$

$$g(z) = \frac{\phi(z) + \omega^2 \phi(\omega z) + \omega \phi(\omega^2 z)}{3}$$

$$f - f' = -(g - g') - (k - k')$$

 $\phi(wx) + \omega\phi(wx) + \omega\phi(x)$

