02 July 2023 03:58

ippex Number 1

(a,b) 
$$\in \mathbb{R}^2 \implies \alpha \in \mathbb{R}$$
,  $b \in \mathbb{R}$ 

(a,b)  $\in \mathbb{R}^2 \implies \alpha \in \mathbb{R}$ ,  $b \in \mathbb{R}$ 

(b) 2-tuple of real numbers

 $Z_1 + Z_2 = Z_2 + Z_1 \qquad \forall Z_1, Z_2 \in \mathcal{F}$ 

( $Z_1 + Z_2 + Z_3 = Z_1 + (Z_2 + Z_3) \qquad \forall Z_1, Z_2, Z_3 \in \mathcal{F}$ 
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identity element of (+) is 0

Z additive I week - 2 (N, K)

$$\frac{2 \cdot 1}{2 \cdot 2^{-1}} = 1 \implies \frac{2^{-1} = \frac{1}{2}}{2} \quad \text{when } 2 \neq 0 \implies 0 = (0, 0)$$

$$\frac{(a,b) + (c,d) = (a+c,b+d)}{(a,b) + (c,d) = (a+c,b+d)}$$

$$\frac{(a,b) + (c,d) = (a+c,b+d)}{(a,b) + (c,d) = (a-bd,b+c+ad)}$$

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$$\frac{(a,b) + (c,d) = (a+c,b+d)}{(a,b) + (c,d) = (a+c,b+d)}$$

2x -yy'=) 2/y+y/x=0 > x'=-y'x

$$2\left(\frac{-y/x}{y} - yy' = 1\right)$$

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

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

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HW = 1? a & R

Complex Numbers Page 1

$$\frac{z^{m} \cdot z^{k}}{z^{n}} = z^{m+n}$$

$$\frac{z^{m}}{z^{n}} = z^{m-n}$$
The at can b to them (a, b) to (c, d)
$$\frac{z_{1} - z_{2}}{z_{1} - z_{2}} = 0 = (0, 0)$$

$$(a, b) - (c, d) = (a - c, b + d) = (0, 0)$$

$$a_{1} - c = 0 \quad b - d = 0$$

$$a_{2} - c \quad b = d$$

$$(z^{m})^{n} = z^{m}$$

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