

$V \rightarrow$ any non empty set $\alpha_0(v_1 \oplus v_2)$
 $= \alpha_0 v_1 \oplus \alpha_0 v_2 \quad (\mathbb{R}(\mathbb{C}))$

(+) : $V \times V \rightarrow V \quad (\mathbb{F}, +, \cdot)$

(o) : $\mathbb{F} \times V \rightarrow V$

$(1+i)(2)$
 $= 2i + 2$
 $\notin \mathbb{R}$

(i) $(V, \oplus) \rightarrow$ abelian grp.

(ii) $\alpha v \in V \quad \alpha \in \mathbb{F}, v \in V$

Hisa leera

$$\boxed{\begin{array}{r} 3 \\ \hline -1 \end{array}}$$

$q \in \mathbb{N}$

$$\frac{1}{2} \cdot \frac{3}{2}$$

$$\mathbb{Q}(\sqrt{2})(\mathbb{Q})$$

$$\mathbb{Q}$$

$$(a + \sqrt{2}b)$$

$$a, b \in \mathbb{Q}$$

$$\frac{p}{q}$$

$$q \neq 0$$

$$p, q \in \mathbb{Z}$$

$$p = ax^n + bx^{n-1} + \dots + d$$

$$a, b, c, \dots, d \in \mathbb{Z}$$

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