LADR 1A Notes

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1.1 Definition of complex numbers

1.3 Properties of complex arithmetic

Commutativity, associativity, identities, additive inverse, multiplicative inverse, distributive property.

1.5 Definition of subtraction, division in $\mathbb{C}$

1.8 Definition of list, length

1.10 Definition of $\mathbb{F}^n$

$\mathbb{F}^n$ is the set of all lists of length n, with all list elements from $\mathbb{F}$. We call x_j the j^{th} coordinate of $(x_1, \ldots, x_n)$.

1.12 Definition of addition in $\mathbb{F}^n$

1.13 Commutativity of addition in $\mathbb{F}^n$

1.14 Definition of 0

0 is the list of length n whose coordinates are all 0.

1.16 Additive inverse in $\mathbb{F}^n$

1.16 Scalar multiplication in $\mathbb{F}^n$