Source:

1 | Definitions

1.1 | DONE group

A set and binary operation that satisfies Group Properties

- Closed
- · Identity
- Inverse
- · Associative

1.2 | DONE field

A set and two binary operations: the primary (addition) and secondary (multiplication) that "mostly" satisfies group properties for both operations, and are **commutative and distributive**. It must be a group under the primary operation and a group under the secondary operation except without a secondary inverse for the primary indentity.

- 1.3 | TODO non-singular matrices
- 2 | Connections
- 2.1 | TODO connect direct sum and linear independence
- 2.2 | TODO matrices to represent complex numbers
- 3 | Computation
- 3.1 | TODO Find the determinant of matrices
- 3.2 | TODO Find equations of lines and planes using cross product and dot product
- 4 | Derivations
- 4.1 | TODO properties of the determinant
- 4.2 | TODO inverse of a 2x2 matrix

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