MATH 306 Workshop

- 1. What properties must a **field F** satisfy?
- 2. Definition of \mathbf{F}^n ?
- 3. Explain the following rules in \mathbf{F}^n
 - a. "+" in \mathbf{F}^{n} :
 - b. "0" in \mathbf{F}^{n} :
 - c. Additive inverse:
 - d. Scalar multiplication:
- 4. Show that $(\alpha + \beta) + \lambda = \alpha + (\beta + \lambda)$ for all $\alpha, \beta, \lambda \in \mathbb{C}$.

5. Show that (ab)x = a(bx) for all $x \in \mathbb{F}^n$ and all $a, b \in \mathbb{F}$.

6. Properties of a **vector space**:

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