Source: ⟦KBe2020math530floIndex⟧

#flo

Talking about the reading

Vector space

Operations

- Scalar multiplication

    - Not a multiplication on V
    - We need another field of scalars
    - Fundamental difference: **operates on different objects** (only happens on scalar multiplications)
    - Something that's linear means "things work for addition and scalar multiplication"
    - Take $-2x + 1y = 3$

        - Multiplying by scalars
        - adding them
        - similar to a line in standard form–slope stays constant

    - Take $2x - 3y + 1z = 2$

        - a plane in 3d

- addition