

Source:

1 | product of vector spaces def

Suppose V_1, \dots, V_m are vector spaces over \mathbb{F}

- The *product* $V_1 \times \dots \times V_m = \{(v_1, \dots, v_m) : v_1 \in V_1, \dots, v_m \in V_m\}$

1.1 | careful

1.1.1 | product of multiple vector spaces (not just two)

1. similar to how sums/direct sums are not just sums of a pair but rather sums of a list