

Types : →

(a) Null Vector : ~

$$\vec{0} = (0, 0, \dots, 0)'$$

all of these elements are zero.

(b) Unit Vectors : ~

$$\vec{e}_1 = (1, 0, 0, \dots, 0)$$

$$\vec{e}_2 = (0, 1, 0, \dots, 0)$$

$$\vec{e}_i = (0, 0, 0, \dots, \overset{\text{(i)th element}}{1}, 0, \dots, 0)$$

$$\vec{e}_n = (0, 0, 0, \dots, 0, 1)$$

are called the unit vectors.

$$[ \bullet a_i \vec{e}_i = a_i \quad \forall i = 1(1)n ]$$

(c) Sum Vector : ~

$$\vec{1} = (1, 1, \dots, 1)'$$

all of these components are unity.

$$[ \bullet \vec{1} \cdot \vec{x} = \sum_{i=1}^n x_i ]$$

VECTOR OPERATIONS : → Let  $\vec{a} = (a_1, a_2, \dots, a_n)'$  and  $\vec{b} = (b_1, b_2, \dots, b_n)'$

*[Faint, mostly illegible text follows, likely describing vector operations like addition, subtraction, and scalar multiplication.]*

# Problems And Theorems In Liner Algebra

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