

Vector Equations

**Vector:**

**Scalar multiple:**

**Vector Addition:**

**Vector Subtraction:**

**Length of vector:**

Algebraic Properties of  $\mathbb{R}^n$ :

- |       |        |
|-------|--------|
| (i)   | (v)    |
| (ii)  | (vi)   |
| (iii) | (vii)  |
| (iv)  | (viii) |

**Linear Combinations**

**Definition:**

**Example:**

**Vector Equation:**

**Span**

**Definition:**

**Example:**