

Vectors

Vectors

Parallel iff scalar multiples

Equal if have same direction & magnitude (regardless of location)

Added tip to tail

Position vector has initial point at the origin

- Can be found by subtracting ending & initial points on vector

Length (magnitude, norm) is $\|\alpha\| = \sqrt{a_1^2 + a_2^2}$

Unit vector has length 1

Normalization of a vector is $\frac{1}{\|\alpha\|}\alpha$ (makes α a unit vector)

Linear Combination of vectors a & b is $c_1a + c_2b$, with scalars c_1 & c_2
- used with i & j in \mathbb{R}^2 , & k in \mathbb{R}^3 to show vector

Dot Product (SCALAR)

$$\langle a_1, a_2 \rangle \cdot \langle b_1, b_2 \rangle = a_1b_1 + a_2b_2$$

- $a \cdot b = 0$ if $a = 0$ or $b = 0$

- $a \cdot b = b \cdot a$

- $a(b + c) = a \cdot b + a \cdot c$

- $a \cdot kb = ka \cdot b = k(a \cdot b)$

- $a \cdot a \geq 0$

- $a \cdot a = \|a\|^2$

- $a \cdot b = \|a\| \cdot \|b\| \cos \theta$, where θ is the angle between a & b

- Orthogonal (similar to perpendicular in \mathbb{R}^2) if $\theta = \frac{\pi}{2}$

i. Two nonzero vectors are orthogonal if $a \cdot b = 0$

Dot Product & Projections

$a \cdot i = a_1 = \text{comp}_i(a)$, called the component of vector a on the vector i .

$\text{comp}_b(a) = \frac{a \cdot b}{\|b\|}$ This is the point on b that corresponds with an orthogonal line that connects b to the terminal point of a .

$$\text{proj}_b(a) = \text{comp}_b(a) \cdot \frac{b}{\|b\|} = \frac{a \cdot b}{\|b\|^2}b, \text{ called the projection of } a \text{ on } b.$$

This is the vector that goes from the initial point of b to the $\text{comp}_b(a)$



Cross Product

$$a \times b = \begin{vmatrix} i & j & k \\ a_1 & a_2 & a_3 \\ b_1 & b_2 & b_3 \end{vmatrix} = (a_2b_3 - a_3b_2)i - (a_1b_3 - a_3b_1)j + (a_1b_2 - a_2b_1)k$$

Alternate signs for each quantity!

**The cross product is only defined in \mathbb{R}^3 **

To check the cross product, do dot product with either of initial vectors to get 0.

- $a \times b = 0$ if $a=0$ or $b=0$

- $a \times b = -(b \times a)$

- $a \times (b + c) = a \times b + a \times c$

- $(b + c) \times a = b \times a + c \times a$

- $a \times kb = ka \times b = k(a \times b)$

- $a \times a = 0$

- $a \cdot (a \times b) = 0$ & $b \cdot (a \times b) = 0$

- $a \times b$ is orthogonal to both a & b

- $|a \times b| = \|a\|\|b\| \sin \theta$, where $0 \leq \theta \leq \pi$ and θ is the angle between a & b

Areas

Parallelogram

$$A = \|a \times b\|$$

Triangle

$$A = \frac{\|a \times b\|}{2}$$

Operations of Vectors

- $a + b = \langle a_1 + b_1, a_2 + b_2 \rangle$
- $ka = \langle ka_1, ka_2 \rangle$
- $a + \mathbf{0} = a$
- $a + (-a) = \mathbf{0}$
- $(k_1 + k_2)a = k_1a + k_2a$
- $1a = a$
- $0a = \mathbf{0}$

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