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Geometrical Properties of Vectors and Covectors

We are going to discuss two fundamental geometric properties of vectors in : length and direction. First, if \mathbf{v} is a vector with point, the length of vector is defined to be the distance from the origin to \mathbf{v} , that is the length of the arrow representing \mathbf{v} . The following properties of length will be used frequently. Theorem 4.1.1

Vector Geometry – Linear Algebra

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Geometric Properties A vector is a quantity with both magnitude and direction, there are two operations defined on vectors and these both have a very direct geometric interpretation. We draw a vector as a line with an arrow, for now I will call the end without the arrow the 'start' of the vector and the end with the arrow the 'end' of the vector.

Maths - Vectors - Martin Baker

The dot product of two unit vectors behaves just oppositely: it is zero when the unit vectors are perpendicular and 1 if the unit vectors are parallel. Unit vectors enable two convenient identities: the dot product of two unit vectors

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yields the cosine (which may be positive or negative) of the angle between the two unit vectors.

Cross product - Wikipedia

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Dot product - Wikipedia
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The two defining properties of a

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An introduction to vectors - Math Insight

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