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intuitive understanding and
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The following laws of

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Multiplication follows immediately from the definition: (a) $a \cdot b = b \cdot a$ (commutativity) (b) $a \cdot (b + c) = a \cdot b + a \cdot c$ (distributivity with respect to vector addition) (c) $(\lambda a) \cdot b = \lambda(a \cdot b) = a \cdot (\lambda b)$ scalar multiple of a scalar product of two vectors

1.2.1 Geometrical interpretation of scalar product.

2A1 Vector Algebra and Calculus

Vector calculus, or vector analysis, is concerned with differentiation and integration of vector fields, primarily in 3-dimensional Euclidean space \mathbb{R}^3 . The term "vector calculus" is sometimes used as a synonym for the broader subject of multivariable calculus, which includes vector calculus as well as

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Solution partial differentiation and multiple integration. Vector calculus plays an important role in differential geometry and in the study of partial differential equati

Vector calculus - Wikipedia

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You might also see notation, and actually in the linear algebra context, it's more typical to write it as a column vector like this-- $\begin{pmatrix} 5 \\ 0 \end{pmatrix}$. This once again, the first coordinate represents how much we're moving in the horizontal direction. And the second coordinate represents how much are we moving in the vertical direction.

Vector intro for linear algebra (video) | Khan Academy

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