

## Dot Product

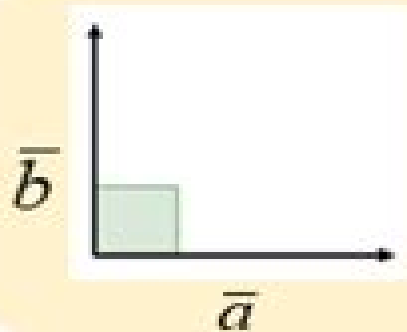
If  $\vec{a} = \langle a_1, a_2, a_3 \rangle$  and  $\vec{b} = \langle b_1, b_2, b_3 \rangle$   
then the dot product is

$$\vec{a} \cdot \vec{b} = a_1 b_1 + a_2 b_2 + a_3 b_3$$



If  $\theta$  is the angle between  $\vec{a}$  and  $\vec{b}$  then

$$\vec{a} \cdot \vec{b} = |\vec{a}| |\vec{b}| \cos \theta$$



$\vec{a} \cdot \vec{b}$  are orthogonal (perpendicular)  
if and only if  $\vec{a} \cdot \vec{b} = 0$

# Dot Product Math Is Fun

**Kelly Slater Cline, Holly Zullo**



## **Dot Product Math Is Fun:**

*Introduction to Programming Using SML* Michael R. Hansen, Hans Rischel, 1999 Based on Hanson and Rischel's introductory programming course in the Informatics Programme at the Technical University of Denmark Using Standard ML Meta Language throughout they bypass theory and customized or efficient implementations to focus on understanding the process of programming and program design Annotation copyrighted by Book News Inc Portland OR **Teaching Mathematics with Classroom Voting** Kelly Slater Cline, Holly Zullo, 2012 Are you looking for new ways to engage your students Classroom voting can be a powerful way to enliven your classroom by requiring all students to consider a question discuss it with their peers and vote on the answer during class When used in the right way students engage more deeply with the material and have fun in the process while you get valuable feedback when you see how they voted But what are the best strategies to integrate voting into your lesson plans How do you teach the full curriculum while including these voting events How do you find the right questions for your students This collection includes papers from faculty at institutions across the country teaching a broad range of courses with classroom voting including college algebra precalculus calculus statistics linear algebra differential equations and beyond These faculty share their experiences and explain how they have used classroom voting to engage students to provoke discussions and to improve how they teach mathematics This volume should be of interest to anyone who wants to begin using classroom voting as well as people who are already using it but would like to know what others are doing While the authors are primarily college level faculty many of the papers could also be of interest to high school mathematics teachers Publisher description *The First Sourcebook on Nordic Research in Mathematics Education* Bharath Sriraman, Simon Goodchild, Christer Bergsten, Gudbjorg Palsdottir, Lenni Haapasalo, Bettina Dahl Søndergaard, 2010-09-01 The First Sourcebook on Nordic Research in Mathematics Education Norway Sweden Iceland Denmark and contributions from Finland provides the first comprehensive and unified treatment of historical and contemporary research trends in mathematics education in the Nordic world The book is organized in sections coordinated by active researchers in mathematics education in Norway Sweden Iceland Denmark and Finland The purpose of this sourcebook is to synthesize and survey the established body of research in these countries with findings that have influenced ongoing research agendas informed practice framed curricula and policy The sections for each country also include historical articles in addition to exemplary examples of recently conducted research oriented towards the future The book will serve as a standard reference for mathematics education researchers policy makers practitioners and students both in and outside the Nordic countries *Math Basics 4* School zone, 1997 Each of the workbooks in the I Know It Combo Workbook series joins two best selling complementary I Know It titles in a single 64 page workbook Written by curriculum specialists Combo Workbooks feature easy to follow directions and amusing illustrations on every page *The Physics of Energy* Robert L. Jaffe, Washington Taylor, 2018-01-25 The Physics of Energy provides a comprehensive and systematic introduction to the

scientific principles governing energy sources uses and systems This definitive textbook traces the flow of energy from sources such as solar power nuclear power wind power water power and fossil fuels through its transformation in devices such as heat engines and electrical generators to its uses including transportation heating cooling and other applications The flow of energy through the Earth's atmosphere and oceans and systems issues including storage electric grids and efficiency and conservation are presented in a scientific context along with topics such as radiation from nuclear power and climate change from the use of fossil fuels Students scientists engineers energy industry professionals and concerned citizens with some mathematical and scientific background who wish to understand energy systems and issues quantitatively will find this textbook of great interest     **Compute** ,1993     *Python for Finance* Yves Hilpisch,2014-12-11 The financial industry has adopted Python at a tremendous rate recently with some of the largest investment banks and hedge funds using it to build core trading and risk management systems This hands on guide helps both developers and quantitative analysts get started with Python and guides you through the most important aspects of using Python for quantitative finance Using practical examples through the book author Yves Hilpisch also shows you how to develop a full fledged framework for Monte Carlo simulation based derivatives and risk analytics based on a large realistic case study Much of the book uses interactive IPython Notebooks with topics that include Fundamentals Python data structures NumPy array handling time series analysis with pandas visualization with matplotlib high performance I/O operations with PyTables date time information handling and selected best practices Financial topics mathematical techniques with NumPy SciPy and SymPy such as regression and optimization stochastics for Monte Carlo simulation Value at Risk and Credit Value at Risk calculations statistics for normality tests mean variance portfolio optimization principal component analysis PCA and Bayesian regression Special topics performance Python for financial algorithms such as vectorization and parallelization integrating Python with Excel and building financial applications based on Web technologies     [Practical Linear Algebra for Data Science](#) Mike X Cohen,2022-09-06 If you want to work in any computational or technical field you need to understand linear algebra As the study of matrices and operations acting upon them linear algebra is the mathematical basis of nearly all algorithms and analyses implemented in computers But the way it's presented in decades old textbooks is much different from how professionals use linear algebra today to solve real world modern applications This practical guide from Mike X Cohen teaches the core concepts of linear algebra as implemented in Python including how they're used in data science machine learning deep learning computational simulations and biomedical data processing applications Armed with knowledge from this book you'll be able to understand implement and adapt myriad modern analysis methods and algorithms Ideal for practitioners and students using computer technology and algorithms this book introduces you to The interpretations and applications of vectors and matrices Matrix arithmetic various multiplications and transformations Independence rank and inverses Important decompositions used in applied linear algebra including LU and QR Eigendecomposition and singular

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