

# Subject : **Vectors**

THE MATHS CENTRE

No. :

Date : .....

⑤ Given points  $A(3, 1)$ ,  $B(5, -2)$  and  $C(8, 4)$  find  
(a)  $\vec{AB}$  (b)  $\vec{CB}$  (c)  $|\vec{AC}|$

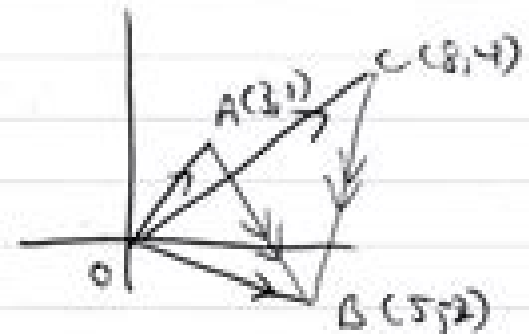
⑤

$$\begin{aligned}\vec{AB} &= \vec{AO} + \vec{OB} \\ &= -(3\mathbf{i} + 1\mathbf{j}) + (5\mathbf{i} - 2\mathbf{j}) \\ &= (2\mathbf{i} - 3\mathbf{j}) \quad \text{or} \quad \begin{pmatrix} 2 \\ -3 \end{pmatrix}\end{aligned}$$

$$\begin{aligned}\vec{CB} &= \vec{CO} + \vec{OB} \\ &= -\vec{OC} + \vec{OB} \\ &= -(8\mathbf{i} + 4\mathbf{j}) + (5\mathbf{i} - 2\mathbf{j}) \\ &= (-3\mathbf{i} - 6\mathbf{j}) \quad \text{or} \quad \begin{pmatrix} -3 \\ -6 \end{pmatrix}\end{aligned}$$

$$\begin{aligned}|\vec{AC}| &= \\ \text{where } \vec{AC} &= \vec{AO} + \vec{OC} \\ &= -(3\mathbf{i} + 1\mathbf{j}) + (8\mathbf{i} + 4\mathbf{j}) \\ &= (5\mathbf{i} + 3\mathbf{j})\end{aligned}$$

$$|\vec{AC}| = \sqrt{5^2 + 3^2} = \sqrt{34} \text{ units}$$



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# Year 11 Maths Vectors Guide

**Octavian Lascu, Barbara  
Sannerud, Cecilia A. De Leon, Edzard  
Hoogerbrug, Ewerson Palacio, Franco  
Pinto, Jin J. Yang, John P. Troy, Martin  
Soellig, IBM Redbooks**

## Year 11 Maths Vectors Guide:

*Readers' Guide to Periodical Literature*, 1916 Author and subject index to a selected list of periodicals not included in the Readers guide and to composite books      **The New Middle Leader's Handbook** Caroline Clay, James Ashmore, 2016-10-07 The New Middle Leader's Handbook is the definitive go to guide for all educators looking to take the leap into middle leadership those wanting to become better middle leaders or senior leaders seeking an authoritative manual for their school's middle leadership Innovatively organised into chapters around the school year taking readers from August to July and covering the full range of problems challenges and opportunities they face in one of the most important roles in the school and providing them with a framework to strategically plan and shape their year Readers can use the book to structure their work into manageable portions while tailoring its content to their own personal school context and its many activities and resources will provide opportunities for reflection analysis and creative thinking Operating as a practical manual and designed for easy reference the book proposes methods systems and procedures for developing a personal leadership style managing and driving dynamic change building a successful team and challenging resistance challenging underperformance of staff and students using performance management to drive improvement monitoring the quality of teaching and learning tracking and measuring progress preparing for inspection or internal review including the self evaluation process organising meetings and leading professional development including the use of the coaching model prioritising workload and maintaining a work life balance developing a strategic learning and development plan creating a culture of positive behaviour aspiration and high expectations innovating in teaching and learning and designing a creative curriculum and curriculum enrichment In addition the book will guide those wishing to step up to middle leadership through the application and interview process providing common sense advice on the experience and skills required to become a successful middle leader At its core the book will be a source of stability for middle leaders that helps them to establish working principles that transcend changes to examinations inspection criteria or DfE guidance It offers inspiration and enable a reflective approach to the role The book is comprehensive and knowledgeable but crucially accessible written in a style that will eschew overly academic theorising trendy soundbites or patronising waffle In its final chapters it looks beyond the first year to provide guidance on long term strategic planning career development and bridging the gap between middle and senior leadership In short The New Middle Leader's Handbook will be the only book that an aspiring or current middle leader will ever need

*IBM z13s Technical Guide* Octavian Lascu, Barbara Sannerud, Cecilia A. De Leon, Edzard Hoogerbrug, Ewerson Palacio, Franco Pinto, Jin J. Yang, John P. Troy, Martin Soellig, IBM Redbooks, 2016-11-10 Digital business has been driving the transformation of underlying information technology IT infrastructure to be more efficient secure adaptive and integrated IT must be able to handle the explosive growth of mobile clients and employees It also must be able to process enormous amounts of data to provide deep and real time insights to help achieve the greatest business impact This IBM Redbooks

publication addresses the new IBM z Systems™ single frame the IBM z13s server IBM z Systems servers are the trusted enterprise platform for integrating data transactions and insight A data centric infrastructure must always be available with a 99.999% or better availability have flawless data integrity and be secured from misuse It needs to be an integrated infrastructure that can support new applications It also needs to have integrated capabilities that can provide new mobile capabilities with real time analytics delivered by a secure cloud infrastructure IBM z13s servers are designed with improved scalability performance security resiliency availability and virtualization The superscalar design allows z13s servers to deliver a record level of capacity over the prior single frame z Systems server In its maximum configuration the z13s server is powered by up to 20 client characterizable microprocessors cores running at 4.3 GHz This configuration can run more than 18.000 millions of instructions per second MIPS and up to 4 TB of client memory The IBM z13s Model N20 is estimated to provide up to 100% more total system capacity than the IBM zEnterprise BC12 Model H13 This book provides information about the IBM z13s server and its functions features and associated software support Greater detail is offered in areas relevant to technical planning It is intended for systems engineers consultants planners and anyone who wants to understand the IBM z Systems™ functions and plan for their usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM z Systems technology and terminology

**IBM z15 (8562) Technical Guide** Octavian Lascu, IBM Redbooks, 2021-04-28 This IBM Redbooks publication describes the features and functions the latest member of the IBM Z platform the IBM z15™ Model T02 machine type 8562 It includes information about the IBM z15 processor design I/O innovations security features and supported operating systems The z15 is a state of the art data and transaction system that delivers advanced capabilities which are vital to any digital transformation The z15 is designed for enhanced modularity which is in an industry standard footprint This system excels at the following tasks Making use of multicloud integration services Securing data with pervasive encryption Accelerating digital transformation with agile service delivery Transforming a transactional platform into a data powerhouse Getting more out of the platform with IT Operational Analytics Accelerating digital transformation with agile service delivery Revolutionizing business processes Blending open source and Z technologies This book explains how this system uses new innovations and traditional Z strengths to satisfy growing demand for cloud analytics and open source technologies With the z15 as the base applications can run in a trusted reliable and secure environment that improves operations and lessens business risk

**Math Survival Guide** Jeffrey R. Appling, 1994-08-16 Algebra based mathematics workbook designed to put science readers of all ages at ease with the math needed to understand science Whether they need ample help or just a fast refresher this approachable resource will help readers master the basics quickly and easily In addition to a full range of mathematics topics Math Survival Guide includes a chapter of invaluable study tips Plus the author gives advice on buying a computer and helps readers focus on the advantages and uses for a computer

*Gazette - Australian Mathematical Society Australian*

Mathematical Society,1984      Handbook for College Admissions Thomas C. Hayden,1989 Provides advice on visiting colleges handling interviews filling out applications selecting colleges to apply to and determining which to attend

**International Association for Promoting the Study of Quaternions and Allied Systems of Mathematics**

International Association for Promoting the Study of Quaternions and Allied Systems of Mathematics,1912 List of members in each number      **Resources in Education** ,1980      **Reader's Guide to Periodical Literature Supplement** ,1922

**Social Sciences and Humanities Index** ,1916      **Australian Books in Print 1995** Thorpe, D. W., Staff,1995-04 This unique reference provides detailed bibliographic information on over 60 000 in print books published in or about Australia or written by Australian authors There are also details on over 3 000 publishers distributors whose titles are represented as well as information on all trade associations literary awards more      Subject Guide to Books in Print ,1993      **El-Hi Textbooks in Print** ,1982      Vector Game Math Processors James C. Leiterman,2002-11 Due to the advancement of video games and game console hardware the super computer is now a home consumer appliance Vector Game Math Processors explains to programmers how to write parallel based integer and floating point based math algorithms for use in video games as well as scientific applications Every manufacturer uses their own terms such as SIMD Packed Data Parallel Data Semi Vector and Vector but they are all different labels for the methodology for programming multiple sets of data with the same computer instruction at the same time Programmers have been publicly declaring these newer processors more complex and harder to program The primary goal of this book is to explain the differences in these processors This is an advanced title appropriate for experienced game and graphics programmers and is part of the Wordware Game Developer s Library      **The**

**Encyclopædia Britannica** Hugh Chisholm,James Louis Garvin,1926      **The Bulletin of Mathematics Books** ,1992

**Mathematics and Computer Education** ,1983      **Australian National Bibliography** ,1988      *The Education Index* ,1987

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