

Vector Addition Worksheet

Directions: Solve the problems below by using the component method of vector addition to find the resultant. Make sure that the resultant has both magnitude and direction because it is a vector quantity. Show all work by setting up the chart and showing the equations for each problem and circle your final answer. Make sure to include correct units.

1. Solve for the resultant displacement of the two vectors:

A = 2.3 km @ 45 degrees

$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\text{adj} = \text{hyp} \cos \theta$$

$$\text{opp} = \text{hyp} \sin \theta$$

$$= 2.3 \cos 45$$

$$= 2.3 \sin 45$$

$$= 1.63 \text{ km}$$

$$= 1.63 \text{ km}$$

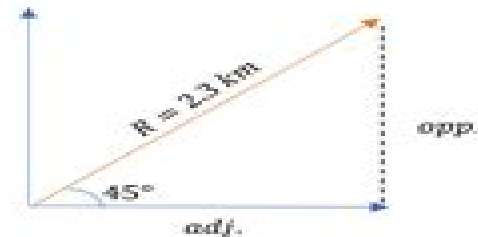
$$R = \sqrt{1.63^2 + 1.63^2}$$

$$= 2.3 \text{ km}$$

$$\tan \theta = \frac{1.63}{1.63} = 1$$

$$\theta = \tan^{-1}(1) = 45^\circ$$

Final Answer: 2.3 km at 45 degrees



B = 4.8 km @ 90 degrees

$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\text{adj} = \text{hyp} \cos \theta$$

$$\text{opp} = \text{hyp} \sin \theta$$

$$= 4.8 \cos 90$$

$$= 4.8 \sin 90$$

$$= 0 \text{ km}$$

$$= 4.8 \text{ km}$$

$$R = \sqrt{0^2 + 4.8^2}$$

$$= 4.8 \text{ km}$$

$$\tan \theta = \frac{4.8}{0} = 0$$

$$\theta = \tan^{-1}(0) = 0^\circ$$

Final Answer: 4.8 km at 0 degree



Vector Addition Word Problems 1 Solutions

Daniel Solow



Vector Addition Word Problems 1 Solutions:

Some Contributions to the Solution of the Word Problem for Groups (canonical Forms in Hypo-abelian Groups) Joseph Henry Engel, 1949 *Linear Programming: An Introduction to Finite Improvement Algorithms* Daniel Solow, 2014-10-15 This text covers the basic theory and computation for a first course in linear programming including substantial material on mathematical proof techniques and sophisticated computation methods Includes Appendix on using Excel 1984 edition

The William Lowell Putnam Mathematical Competition 1985-2000: Problems, Solutions, and Commentary Kiran S. Kedlaya, Bjorn Poonen, Ravi Vakil, 2020-01-16 This third volume of problems from the William Lowell Putnam Competition is unlike the previous two in that it places the problems in the context of important mathematical themes The authors highlight connections to other problems to the curriculum and to more advanced topics The best problems contain kernels of sophisticated ideas related to important current research and yet the problems are accessible to undergraduates The solutions have been compiled from the American Mathematical Monthly Mathematics Magazine and past competitors Multiple solutions enhance the understanding of the audience explaining techniques that have relevance to more than the problem at hand In addition the book contains suggestions for further reading a hint to each problem separate from the full solution and background information about the competition The book will appeal to students teachers professors and indeed anyone interested in problem solving as a gateway to a deep understanding of mathematics **The Formative 5 in Action, Grades K-12** Francis (Skip) Fennell, Beth McCord Kobett, Jonathan A. Wray, 2023-06-05 This expanded volume serves as an interactive guide that steers teachers toward successful implementation of the formative five techniques of observation interviews Show Me hinge questions and exit tasks It offers video examples of the five techniques in action in real K 12 classrooms built in reflection exercises and activities discussion of providing effective and timely feedback to students while harnessing their strengths and teachers frequently asked questions Mathematical Foundations of Computer Science 2003 Branislav Rovan, Peter Vojtas, 2003-08-11 This book constitutes the refereed proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science MFCS 2003 held in Bratislava Slovakia in August 2003 The 55 revised full papers presented together with 7 invited papers were carefully reviewed and selected from 137 submissions All current aspects in theoretical computer science are addressed ranging from discrete mathematics combinatorial optimization graph theory networking algorithms and complexity to programming theory formal methods and mathematical logic

Reachability Problems Paul C. Bell, Patrick Totzke, Igor Potapov, 2021-10-25 This book constitutes the refereed proceedings of the 15th International Conference on Reachability Problems RP 2021 held in Liverpool UK in October 2021 The 6 full papers presented were carefully reviewed and selected from 27 submissions In addition 4 invited papers were included in this volume The RP proceedings cover topics such as reachability for infinite state systems rewriting systems reachability analysis in counter timed cellular communicating automata Petri nets computational aspects of semigroups

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Geometric Algorithms and Combinatorial Optimization Martin Grötschel, Laszlo Lovasz, Alexander Schrijver, 2012-12-06 Historically there is a close connection between geometry and optimization This is illustrated by methods like the gradient method and the simplex method which are associated with clear geometric pictures In combinatorial optimization however many of the strongest and most frequently used algorithms are based on the discrete structure of the problems the greedy algorithm

shortest path and alternating path methods branch and bound etc In the last several years geometric methods in particular polyhedral combinatorics have played a more and more profound role in combinatorial optimization as well Our book discusses two recent geometric algorithms that have turned out to have particularly interesting consequences in combinatorial optimization at least from a theoretical point of view These algorithms are able to utilize the rich body of results in polyhedral combinatorics The first of these algorithms is the ellipsoid method developed for nonlinear programming by N Z Shor D B Yudin and A S Nemirovskii It was a great surprise when L G Khachiyan showed that this method can be adapted to solve linear programs in polynomial time thus solving an important open theoretical problem While the ellipsoid method has not proved to be competitive with the simplex method in practice it does have some features which make it particularly suited for the purposes of combinatorial optimization The second algorithm we discuss finds its roots in the classical geometry of numbers developed by Minkowski This method has had traditionally deep applications in number theory in particular in diophantine approximation

Basic Fundamentals of Fluid Mechanics Mr. Rohit Manglik, 2023-07-23 Introduces fluid properties pressure measurement Bernoulli's equation and laminar vs turbulent flow principles essential in mechanical and process engineering

Hungarian Problem Book III György Hajós, Andy Liu, G. Neukomm, 2001-08-09 This book contains the problems and solutions of a famous Hungarian mathematics competition for high school students from 1929 to 1943 The competition is the oldest in the world and started in 1894 Two earlier volumes in this series contain the papers up to 1928 and further volumes are planned The current edition adds a lot of background material which is helpful for solving the problems therein and beyond Multiple solutions to each problem are exhibited often with discussions of necessary background material or further remarks This feature will increase the appeal of the book to experienced mathematicians as well as the beginners for whom it is primarily intended

Resources in Education, 1986 Serves as an index to Eric reports microform

Artificial Intelligence in Insurance and Finance Glenn Fung, Sou Cheng Choi, Luisa Fernanda Polania Cabrera, Victor Wu, Lawrence Kwan Ho Ma, 2022-01-04 Luisa Fernanda Polania Cabrera is an Experienced Professional at Target Corporation United States Victor Wu is a Product Manager at GitLab Inc San Francisco United States Sou Cheng Choi is a Consulting Principle Data Scientist at Allstate Corporation Lawrence Kwan Ho Ma is the Founder Director and Chief Scientist of Valigo Limited and Founder CEO and Chief Scientist of EMALI IO Limited Glenn M Fung is the Chief Research Scientist at American Family Insurance

An Introduction to IoT Analytics Harry G. Perros, 2021-03-31 This book covers techniques that can be used to analyze data from IoT sensors and addresses questions regarding the performance of an IoT system It strikes a balance between practice and theory so one can learn how to apply these tools in practice with a good understanding of their inner workings This is an introductory book for readers who have no familiarity with these techniques The techniques presented in *An Introduction to IoT Analytics* come from the areas of machine learning statistics and operations research Machine learning techniques are described that can be used to analyze IoT data generated from sensors

for clustering classification and regression The statistical techniques described can be used to carry out regression and forecasting of IoT sensor data and dimensionality reduction of data sets Operations research is concerned with the performance of an IoT system by constructing a model of the system under study and then carrying out a what if analysis The book also describes simulation techniques Key Features IoT analytics is not just machine learning but also involves other tools such as forecasting and simulation techniques Many diagrams and examples are given throughout the book to fully explain the material presented Each chapter concludes with a project designed to help readers better understand the techniques described The material in this book has been class tested over several semesters Practice exercises are included with solutions provided online at www.routledge.com 9780367686314 Harry G Perros is a Professor of Computer Science at North Carolina State University an Alumni Distinguished Graduate Professor and an IEEE Fellow He has published extensively in the area of performance modeling of computer and communication systems Proceedings of the Fifth Annual ACM-SIAM Symposium on Discrete Algorithms, 1994-01-01 The January 1994 Symposium was jointly sponsored by the ACM Special Interest Group for Automata and Computability Theory and the SIAM Activity Group on Discrete Mathematics Among the topics in 79 refereed papers comparing point sets under projection on line search in a simple polygon low degree tests maximal empty ellipsoids roots of a polynomial and its derivatives dynamic algebraic algorithms fast comparison of evolutionary trees an efficient algorithm for dynamic text editing and tight bounds for dynamic storage allocation No index Annotation copyright by Book News Inc Portland OR

Artificial Intelligence in Education: Emerging Technologies, Models and Applications Eric C. K. Cheng, Rekha B. Koul, Tianchong Wang, Xinguo Yu, 2022-03-17 This edited book is a collection of selected research papers presented at the 2021 2nd International Conference on Artificial Intelligence in Education Technology AIET 2021 held in Wuhan China on July 2 4 2021 AIET establishes a platform for AI in education researchers to present research exchange innovative ideas propose new models as well as demonstrate advanced methodologies and novel systems Rapid developments in artificial intelligence AI and the disruptive potential of AI in educational use has drawn significant attention from the education community in recent years For educators entering this uncharted territory many theoretical and practical questions concerning AI in education are raised and issues on AI's technical pedagogical administrative and socio cultural implications are being debated The book provides a comprehensive picture of the current status emerging trends innovations theory applications challenges and opportunities of current AI in education research This timely publication is well aligned with UNESCO's Beijing Consensus on Artificial Intelligence AI and Education It is committed to exploring how best to prepare our students and harness emerging technologies for achieving the Education 2030 Agenda as we move towards an era in which AI is transforming many aspects of our lives Providing a broad coverage of recent technology driven advances and addressing a number of learning centric themes the book is an informative and useful resource for researchers practitioners education leaders and

policy makers who are involved or interested in AI and education *Some Iterative Solutions in Optimal Control* John B. Plant, 1968 **Who Gave You the Epsilon?** Marlow Anderson, Victor Katz, Robin Wilson, 2009-03-31 Follows on from Sherlock Holmes in Babylon to take the history of mathematics through the nineteenth and twentieth centuries

Post-Quantum Cryptography Ruben Niederhagen, Markku-Juhani O. Saarinen, 2025-03-24 The two volume set LNCS 15577 15578 constitutes the proceedings of the 16th International Workshop on Post Quantum Cryptography PQCrypto 2025 held in Taipei Taiwan during April 8 10 2025 The 25 full papers presented in the proceedings were carefully selected and reviewed from 59 submissions The papers have been organized in the following topical sections Part I Code Based Cryptography Multivariate Cryptography Lattice Based Cryptography Part II Isogeny Based Cryptography Cryptanalysis Quantum Security Side Channel Attacks Security Notions **Computer Algebra In Physical Research: Memorial Volume For N N Govorun - Proceedings Of The Iv International Conference** V A Rostovtsev, Dmitri V Shirkov, V P Gerdt, 1991-12-11 Professor Nicholas N Govorun corresponding member of the USSR Academy of Sciences was the principal organizer of the precedent meetings held at Dubna 1979 1983 1985 Unfortunately he passed away in 1989 This volume is to honor his support in Computer Algebra This is perhaps the only meeting of the entire soviet union computer algebra community and foreign scientists The meeting presented scientific results plans for research facilities and status reports of the basic areas of investigations The fields covered include computer algebra systems and general algorithms as well as applied algorithms programs and results in computer algebra applications mainly in physics

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