

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

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

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

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

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

$$= 2.3 \cos 45$$

$$= 2.3 \sin 45$$

$$= 1.63 \text{ km}$$

$$= 1.63 \text{ km}$$

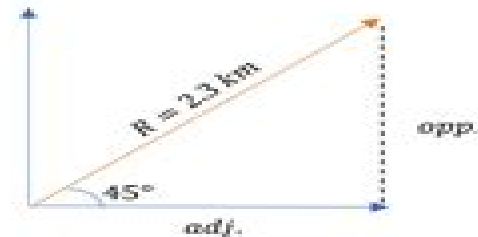
$$R = \sqrt{1.63^2 + 1.63^2}$$

$$= 2.3 \text{ km}$$

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

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

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

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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 **Technical Mathematics** Paul A. Calter, Michael A. Calter, 2011-03-22 This textbook has been in constant use since 1980 and this edition represents the first major revision of this text since the second edition. It was time to select, make hard choices of material, polish, refine, and fill in where needed. Much has been rewritten to be even cleaner and clearer. New features have been introduced and some peripheral topics have been removed. The authors continue to provide real world technical applications that promote intuitive reader learning. Numerous fully worked examples and boxed and numbered formulas give students the essential practice they need to learn mathematics. Computer projects are given when appropriate, including BASIC spreadsheets, computer algebra systems, and computer assisted drafting. The graphing calculator has been fully integrated and calculator screens are given to introduce computations. Everything the technical student may need is included, with the emphasis always on clarity and practical applications. *EBOOK: Fluid Mechanics (SI units)* White, 2016-02-01 Overview White's Fluid Mechanics offers students a clear and comprehensive presentation of the material that demonstrates the progression from physical concepts to engineering applications and helps students quickly see the practical importance of fluid mechanics fundamentals. The wide variety of topics gives instructors many options for their course and is a useful resource to students long after graduation. The book's unique problem solving approach is presented at the start of the book and carefully integrated in all examples. Students can progress from general ones to those involving design, multiple steps, and computer usage. McGraw Hill Education's Connect is also available as an optional add-on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a multi-step solution which helps move the student's learning along if they experience difficulty. The eighth edition of Fluid Mechanics offers students a clear and comprehensive presentation of the material that demonstrates the progression from physical concepts to engineering applications. The book helps students to see the practical importance of fluid mechanics fundamentals. The wide variety of topics gives instructors many options for their course and is a useful resource to students long after graduation. The problem solving approach is presented at the start of the book and carefully integrated in all examples. Students can progress from general examples to those involving design, multiple steps, and computer usage. *Contemporary Calculus IV* Dale Hoffman, 2013-04-03 This is a textbook for 4th quarter calculus covering the Vectors, Vector Valued Functions, Functions of Several Variables, and Double Integrals. It has explanations, examples, worked solutions, problem sets, and answers. It has been reviewed by calculus instructors and class tested by them and the author. Besides technique practice and applications of the techniques, the

examples and problem sets are also designed to help students develop a visual and conceptual understanding of the main ideas. The exposition and problem sets have been highly rated by reviewers.

Physics Eugene Hecht, 2003. Student text. An Introduction to Physics. Measurement. The Language of Physics. Kinematics. Speed. Velocity. Speed. Velocity. Relative Motion. Kinematics. Acceleration. The Concept of Acceleration. Uniformly Accelerated Motion. Free Fall. Newton's Three Laws. The Three Laws. Dynamics. Statics. Centripetal Force. Gravity. Centripetal Force. Gravity. The Cosmic Force. Energy. The Transfer of Energy. Mechanical Energy. Conservation of Mechanical Energy. Momentum. Collisions. Linear Momentum. Rotational Motion. The Kinematics of Rotation. Rotational Equilibrium. The Dynamics of Rotation. Solids. Liquids. Gases. Atoms. Matter. Fluid Statics. Fluid Dynamics. Elasticity. Oscillations. Elasticity. Harmonic Motion. Waves. Sound. Mechanical Waves. Sound. Thermal Properties of Matter. Temperature. Thermal Expansion. The Gas Laws. Heat. Thermal Energy. Thermal Energy. Change of State. The Transfer of Thermal Energy. Thermodynamics. The First Law of Thermodynamics. Cyclic Processes. Engines. Refrigerators. The Second Law of Thermodynamics. Electrostatics. Forces. Electromagnetic Charge. The Electric Force. The Electric Field. Electrostatics. Energy. Electric Potential. Capacitance. Direct Current. Flowing Electricity. Resistance. Circuits. Circuit Principles. Network Analysis. Optional. Magnetism. Magnets. The Magnetic Field. Electrodynamics. Magnetic Force. Electromagnetic Induction. Electromagnetically Induced emf. Generators. Self Induction. AC. Electronics. Alternating Current. R L C AC Networks. Optional. Electronics. Optional. Radiant Energy. Light. The Nature of Light. The Electromagnetic Photon Spectrum. The Propagation of Light. Scattering. Scattering. Reflection. Refraction. The World of Color. Geometrical Optics. Instruments. Lenses. Mirrors. Physical Optics. Polarization. Interference. Diffraction. Special Relativity. Before the Special Theory. The Special Theory of Relativity. Relativistic Dynamics. The Origins of Modern Physics. Subatomic Particles. The Nuclear Atom. The Evolution of Quantum Theory. The Old Quantum Theory. Atomic Theory. Quantum Mechanics. The Conceptual Basis of Quantum Mechanics. Quantum Physics. Nuclear Physics. Nuclear Structure. Nuclear Transformation. High Energy Physics. Elementary Particles. Quantum Field Theory. A Brief Mathematical Review. Algebra. Geometry. Trigonometry. Vectors. Dimensions.

American Journal of Mathematics, 1950. The American Journal of Mathematics publishes research papers and articles of broad appeal covering the major areas of contemporary mathematics.

Proceedings of the American Mathematical Society. American Mathematical Society, 1977. Contains the material formerly published in even numbered issues of the Bulletin of the American Mathematical Society.

Technical Mathematics with Calculus Paul A. Calter, Michael A. Calter, 2010-12-28. This text is an unbound binder ready edition. This text is designed to provide a mathematically rigorous comprehensive coverage of topics and applications while still being accessible to students. Calter Calter focuses on developing students' critical thinking skills as well as improving their proficiency in a broad range of technical math topics such as algebra, linear equations, functions, and integrals. Using abundant examples and graphics throughout the text, this edition provides several features to help students visualize problems and better understand the concepts. Calter Calter has been praised for its real life and

engineering oriented applications The sixth edition of Technical Mathematics has added back in popular topics including statistics and line graphing in order to provide a comprehensive coverage of topics and applications everything the technical student may need is included with the emphasis always on clarity and practical applications WileyPLUS an online teaching and learning environment that integrates the entire digital text will be available with this edition WileyPLUS sold separately from text

Mathematics Earl K. Bowen,1967 **The Johns Hopkins University Circular** Johns Hopkins University,1882 Includes University catalogues President s report Financial report registers announcement material etc **Railway Signaling and Communications** ,1921 *Railway Signal Engineer* ,1921 **Computer Sciences Technical Report** ,1975 *Prolegomena to Analytical Geometry in Anisotropic Euclidean Space of Three Dimensions* Eric Harold Neville,1922

The Signal Engineer ,1921 *Mathematical Foundations of Computer Science* ,2003 **Foundations of Software Science and Computation Structures** Parosh Aziz Abdulla,Delia Kesner,2025-04-30 This open access book constitutes the proceedings of the 28th International Conference on Foundations of Software Science and Computation Structures FOSSACS 2025 which took place in Hamilton Canada during May 2025 held as part of the International Joint Conferences on Theory and Practice of Software ETAPS 2025 The 19 papers included in these proceedings were carefully reviewed and selected from 58 submissions They focus on foundational research in software science on theories and methods to support the analysis integration synthesis transformation and verification of programs and software systems **R.R. Bowker's Software for Schools** ,1987 **Geometry, Trigonometry, Algebra III** John H. Saxon,1985 Calclab W/Mple-Mlti Calc Philip Yasskin,Art Belmonte,2003-06 Each of these comprehensive lab manuals will help students learn to effectively use the technology tools available to them Each lab contains clearly explained exercises and a variety of labs and projects to accompany the text

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