

Triangle Connections

Each figure shows a vector addition. Write necessary, clearly-labeled units. Then, list the magnitude, direction, and components of each vector found.

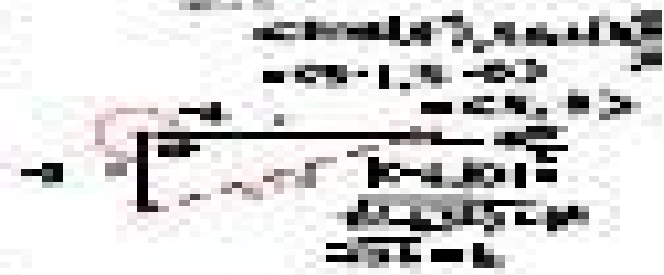
1)

Vector	Magnitude	Direction	Components
$\vec{a}$	5	0°	$\langle 5, 0 \rangle$
$\vec{b}$	4	45° $\frac{\pi}{4}$	$\langle 2.83, 2.83 \rangle$
$\vec{a} + \vec{b}$	$\sqrt{41}$ 6.40	36.87°	$\langle 7.81, 2.83 \rangle$



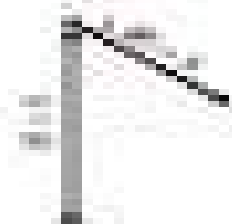
2)

Vector	Magnitude	Direction	Components
$\vec{a}$	6	0°	$\langle 6, 0 \rangle$
$\vec{b}$	3	135° $\frac{3\pi}{4}$	$\langle -2.12, 2.12 \rangle$
$\vec{a} + \vec{b}$	$\sqrt{15}$ 3.87	33.7°	$\langle 3.87, -0.87 \rangle$



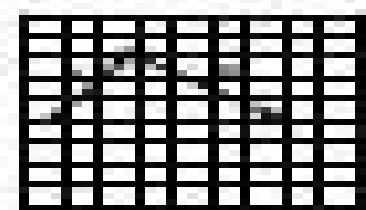
3)

Vector	Magnitude	Direction	Components
$\vec{a}$	8	0°	$\langle 8, 0 \rangle$
$\vec{b}$	8	135° $\frac{3\pi}{4}$	$\langle -5.66, 5.66 \rangle$
$\vec{a} + \vec{b}$	$8\sqrt{2}$ 11.31	31.6°	$\langle 7.07, -5.66 \rangle$



4)

Vector	Magnitude	Direction	Components
$\vec{a}$	$5\sqrt{2}$ 7.07	45° $\frac{\pi}{4}$	$\langle 5, 5 \rangle$
$\vec{b}$	5	-36.9°	$\langle 4, -3 \rangle$
$\vec{a} + \vec{b}$	6	0°	$\langle 6, 0 \rangle$



5) The vectors in each set (shown) form a triangle. What are the magnitude and direction of the angle in the triangle? Supply units for all answers.

Precalculus Hs Mathematics Tesccc Unit Lesson

Michael Sullivan



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Hornsby, Margaret L. Lial, Gary K. Rockswold, 2008-07 *Precalculus* Marvin L. Bittinger, 2006 With a visual graphical approach that emphasizes connections among concepts this text helps students make the most of their study time The authors show how different mathematical ideas are tied together through their zeros solutions and x intercepts theme side by side algebraic and graphical solutions calculator screens and examples and exercises By continually reinforcing the connections among various mathematical concepts as well as different solution methods the authors lead students to the ultimate goal of mastery and success in class **Pre-Calculus, Vol. IV: Lessons 136 - 180** Quantum Scientific Publishing, 2023-06-11 Quantum Scientific Publishing QSP is committed to providing publisher quality low cost Science Technology Engineering and Math STEM content to teachers students and parents around the world This book is the fourth of four volumes in Pre Calculus containing lessons 136 180 Volume I Lessons 1 45 Volume II Lessons 46 90 Volume III Lessons 91 135 Volume IV Lessons 136 180 This title is part of the QSP Science Technology Engineering and Math Textbook Series *Precalculus* Franklin D. Demana, Bert K. Waits, Stanley R. Clemens, 1993 *Learn by Doing PreCalculus* Ryan Hobbs, 2025-03-31 Developed through a decade of college math instruction Learn By Doing PreCalculus has been built with a unique approach Each activity is an interactive lesson designed to help the student self discover the concepts of PreCalculus Should the student get stuck a QR code leads to a video where the author walks through and explains each problem in the activity And if further help is needed a second QR code at the end of each lesson links to a traditional lecture for that material But Learn By Doing PreCalculus is more than just an interactive workbook It incorporates the principles of math education discovered in the college classroom Math is a language that must be clearly translated for the student into English And good math instruction must be comprehensible by showing students how the concepts relate to ideas from arithmetic which they already know and understand Structured to follow a popular free PreCalculus textbook this workbook can be used as your foundational instructional tool or as a tutoring companion It is time to try a different approach to learning mathematics So get engaged and get learning **Precalc Math Calc Sg E4** John Banks, 2001-12 Detailed explanations and worked out practice problems *Precalculus with Unit-circle Trigonometry* David Cohen, 1998 Precalculus with Unit Circle Trigonometry Third Edition by David Cohen continues to create a book that is accessible to the student through a careful progression and presentation of concepts rich problem sets and examples to help explain and motivate concepts and continual guidance through the challenging work needed to master concepts and skills This book is identical to Precalculus A Problems Oriented Approach Fifth Edition with the exception of the first four chapters on trigonometry **Precalculus Mathematics in a Nutshell: Geometry, Algebra, Trigonometry** George F. Simmons, 2003-01-14 Geometry is a very beautiful subject whose qualities of elegance order and certainty have exerted a powerful attraction on the human mind for many centuries Algebra s importance lies in the student s future as essential preparation for the serious study of science engineering economics or for more advanced types of mathematics The primary importance of trigonometry is not in its

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