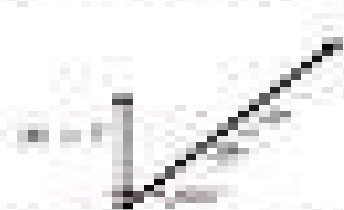


Triangle Connections

Complete each chart and figure to solve the vector problems. Answer the questions that follow.

1.1)

vector	magnitude	direction	components
$\vec{a}$	7	40°	$\vec{a} = 5.37\hat{i} + 4.59\hat{j}$
$\vec{b}$	14	100°	$\vec{b} = -11.33\hat{i} + 4.94\hat{j}$
$\vec{c} = \vec{a} + \vec{b}$	16.439	94.1°	$\vec{c} = 4.04\hat{i} + 9.53\hat{j}$



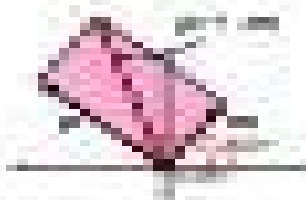
1.2) The three vectors in the figure above form a triangle. Use these magnitudes to determine the measure of the angle in the triangle.

100 degrees $+ 100$ degrees $+ 100$ degrees $= 300$ degrees $+ 100.2$ degrees $= 400.2$ degrees $- 100.2$ degrees $= 300$ degrees $- 100$ degrees $= 200$ degrees $+ 100.2$ degrees $= 300.2$ degrees

1.3) The magnitude of the vector $\vec{a} = 10$ can be represented as the horizontal length(s) in the triangle shown below. What the Law of Sines or the Law of Cosines to find $\vec{c}$.
Recall that $\vec{a} + \vec{b} = \vec{c}$.

$$\vec{a}^2 + \vec{b}^2 = \vec{c}^2 \quad 10^2 + 10^2 = \vec{c}^2 \quad 200 = \vec{c}^2 \quad \sqrt{200} = \vec{c} \quad \text{take square root}$$

$$\vec{c} = 14.142 \quad \text{is the sum of the two}$$



1.4) In the figure, vector $\vec{a}$ has a magnitude of 1.50 and a magnitude of 1.2 units, and vector $\vec{b}$ has a magnitude of 1.00 and a magnitude of 0.5 units. Diagrams show the angle between the two vectors could be 170° .

Recall, we can use the cosine rule to find the resultant. The resultant length is 1.20 degrees $+ 100$ degrees $= 110$ degrees



1.5) The magnitude of the vector $\vec{a} = 10$ can be represented as the length of the diagonal(s) in the parallelogram shown in the figure. Use the value and form of trigonometry to find $\vec{c}$.

$$\vec{a}^2 + \vec{b}^2 = \vec{c}^2 \quad 10^2 + 10^2 = \vec{c}^2 \quad 200 = \vec{c}^2 \quad \sqrt{200} = \vec{c}$$

$$\vec{c} = 14.142$$

1.6)

vector	magnitude	direction	components
$\vec{a}$	12	135°	$\vec{a} = -8.49\hat{i} + 8.49\hat{j}$
$\vec{b}$	4	45°	$\vec{b} = 2.83\hat{i} + 2.83\hat{j}$
$\vec{c} = \vec{a} + \vec{b}$	14.742	119°	$\vec{c} = -5.66\hat{i} + 11.32\hat{j}$

Recall, we should use the cosine rule to find the resultant.

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Sitter



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Roadmap to the California High School Exit Exam Princeton Review (Firm),2004-08 **Resources in Education**,2000-04 *Research in Education* ,1973 **Test Prep, High School** Carson-Dellosa Publishing Staff,Spectrum,Spectrum Staff,2001-03-06 Developed by experts experienced in high stakes testing American Education Publishing Test Prep provides the essential preparation that young learners need to achieve success on proficiency tests American Education Publishing Test Prep takes the mystery out of what to expect on test day by explaining strategies and techniques for answering different kinds of questions Multiple tests in reading math and language arts provide comprehensive practice in key subjects required for proficiency The Texas Mathematics Teachers' Bulletin ,1925 Books In Print 2004-2005 Ed Bowker Staff,Staff Bowker, Ed,2004 **Preparing Students for Standardized Testing, Grade 6** Sitter,2009-08-24 Familiarize students in grade 6 with the format and language of standardized tests using Preparing Students for Standardized Testing This 128 page book is organized in a clear concise way so that the lessons and tips build students confidence and practice tests support skill reinforcement This book covers topics such as vocabulary language mechanics and comprehension math computation and problem solving scientific process history and culture government and geography The book includes reproducibles and an answer key **The Math Pact, High School** Barbara J. Dougherty,Sarah B. Bush,Karen S. Karp,2020-09-19 A schoolwide solution for students mathematics success Do you sometimes start to teach a mathematics concept and feel like you're staring at a sea of bewildered faces What happens when you discover students previously learned a calculation trick or a mnemonic that has muddled their long term understanding When rules seem to change from year to year teacher to teacher or school to school mathematics can seem like a disconnected mystery for students Clear up the confusion with a Mathematics Whole School Agreement Expanded from the highly popular Rules that Expire series of NCTM articles this essential guide leads educators through the collaborative step by step process of establishing a coherent and consistent learner centered and equitable approach to mathematics instruction Through this work you will identify streamline and become passionate about using clear and consistent mathematical language notations representations rules and generalizations within and across classrooms and grades Importantly you'll learn to avoid rules that expire tricks that may seem to help students in one grade but hurt in the long run Features of this book include Abundant grade specific examples Effective working plans for sustainability Barrier busting tips to do and try it out Practical templates and checklists PLC prompts and discussion points When teachers unite across grades students hit the ground running every year Take the next step together as a team and help all your students build on existing understanding to find new success and most importantly love learning and doing mathematics *Everyday Mathematics Teacher Lesson Guide Volume 1 Grade 5* University of Chicago. School Mathematics Project,2007 The Teacher's Lesson Guide provides easy to follow lessons organized by instructional unit as well as built in mathematical content support Lessons include planning and assessment tips and

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