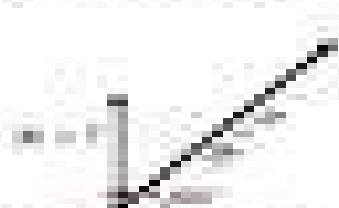


Triangle Connections

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°	$\vec{c} = 4.04\hat{i} + 9.53\hat{j}$



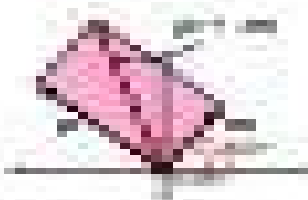
1.2) The three vectors in the figure above form a triangle. Use these magnitudes to determine the measure of the angle in the triangle.

100 degrees, 100 degrees, 100 degrees, 90 degrees, 100.0 degrees, 100.0 degrees, and 100.0 degrees, 100 degrees, 100.0 degrees, 100.0 degrees, 100.0 degrees, and 100.0 degrees.

1.3) The magnitude of the vector $\vec{a}$ ($a = 4$) can be determined as the magnitude length (a) in the triangle drawn from. Use the Law of Sines or the Law of Cosines to find a .
Recall that $a^2 = b^2 + c^2 - 2bc \cos A$.

$$a^2 = 2^2 + 2^2 - 2(2)(2) \cos(60 \text{ degrees}) = 4 \text{ units squared}$$

$$a = 2 \text{ units, in the same direction}$$



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 1.0 units. Diagrams show the angle between the two vectors could be 70° .

Recall, use angle to find relative velocities, the relative angles 100 degrees, 100 degrees, 100 degrees, 100 degrees, 100.0 degrees, 100.0 degrees, and 100.0 degrees.



1.5) The magnitude of the vector $\vec{a}$ ($a = 4$) can be determined as the length of the diagonal in the parallelogram drawn from the origin. Use the Law of Sines or the Law of Cosines to find a .

$$a^2 = 2^2 + 2^2 - 2(2)(2) \cos(60 \text{ degrees}) = 4 \text{ units squared}$$

$$a = 2 \text{ units}$$

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, use angle to find relative velocities, the relative angles 100 degrees, 100 degrees, 100 degrees, 100 degrees, 100.0 degrees, 100.0 degrees, and 100.0 degrees.

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1. Understanding the eBook 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
 - The Rise of Digital Reading 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
 - Advantages of eBooks Over Traditional Books
2. Identifying 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
 - User-Friendly Interface
4. Exploring eBook Recommendations from 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
 - Personalized Recommendations
 - 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01 User Reviews and Ratings
 - 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01 and Bestseller Lists

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 - 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01 Public Domain eBooks
 - 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01 eBook Subscription Services
 - 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01 Budget-Friendly Options
6. Navigating 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01 eBook Formats
 - ePub, PDF, MOBI, and More
 - 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01 Compatibility with Devices
 - 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
 - Highlighting and Note-Taking 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
 - Interactive Elements 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
8. Staying Engaged with 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
9. Balancing eBooks and Physical Books 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
 - Setting Reading Goals 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
 - Fact-Checking eBook Content of 12 Tesccc Geometry Hs Mathematics Unit 06 Lesson 01
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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