

**UNIT 5 Vectors****5.2 – Analytical Method of Vector Addition**

Vector addition is dealt in three conceptually equivalent ways:

1. graphical methods
2. analytical methods
3. algebraic methods

Sin law

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

Cos law

$$c^2 = a^2 + b^2 - 2ab \cos C$$

Recall the tools needed to solve vector problems:

Pythagorean Theorem

$$C^2 = a^2 + b^2$$

$$C = \sqrt{a^2 + b^2}$$

Primary Trig Ratios

$$\sin \theta = \frac{b}{c} \quad \cos \theta = \frac{a}{c} \quad \tan \theta = \frac{b}{a}$$



**Vector addition: graphical method**

If two vectors are represented by two sides of a triangle in sequence, then third closing side of the triangle, in the opposite direction of the sequence, represents the sum (or resultant) of the two vectors in both magnitude and direction.



For adding

$$\vec{A} + \vec{B} = \vec{B} + \vec{A}$$

$$\vec{A} - \vec{B} = \vec{A} + (-\vec{B})$$

Add  $\vec{a} + \vec{b}$

Add  $\vec{b} + \vec{a}$



$(a-b)$



**Vector addition: Analytical method**

We shall analyze vector addition in the form of triangle law to obtain the magnitude of the sum of the two vectors. Let P and Q be the two vectors to be added, which make an angle  $\theta$  with each other. We arrange the vectors in such a manner that two adjacent sides OA and AB of the triangle OAB, represent two vectors P and Q respectively as shown in the figure.



Get the 2 main components for vector Q

$$x\text{-comp} = Q \cos \theta$$

$$y\text{-comp} = Q \sin \theta$$



$$Q \sin \theta$$

$$Q \cos \theta$$

$$x = P + Q \cos \theta =$$

$$y = Q \sin \theta$$

$$R = \sqrt{(P + Q \cos \theta)^2 + (Q \sin \theta)^2} =$$

**Angle Directions** – using an x – y plane we define angle directions in the following way:

$$\angle \alpha = \tan^{-1} \frac{y}{x} =$$

$$\angle \alpha = \tan^{-1} \frac{Q \sin \theta}{P + Q \cos \theta}$$

**Example:** An airplane flying toward  $\theta$  at  $90.0 \text{ km/h}$  is being blown toward  $90^\circ$  at  $50.0 \text{ km/h}$ . What is the resultant velocity of the plane?



$$R = \sqrt{90^2 + 50^2} = \sqrt{8100 + 2500} = \boxed{102.96 \text{ km/hr}} \approx 103 \text{ km/hr}$$

$$\theta = \tan^{-1} \frac{y}{x} = \tan^{-1} \frac{50}{90} = 29.1^\circ$$

$$|R| = 103 \text{ km/hr } [29^\circ \text{ N of E}]$$

# Review For Vector Addition Answers

**John D. Cutnell, Kenneth W. Johnson**



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## **Table of Contents Review For Vector Addition Answers**

1. Understanding the eBook Review For Vector Addition Answers
  - The Rise of Digital Reading Review For Vector Addition Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Review For Vector Addition Answers
  - 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 Review For Vector Addition Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Review For Vector Addition Answers
  - Personalized Recommendations
  - Review For Vector Addition Answers User Reviews and Ratings
  - Review For Vector Addition Answers and Bestseller Lists
5. Accessing Review For Vector Addition Answers Free and Paid eBooks
  - Review For Vector Addition Answers Public Domain eBooks
  - Review For Vector Addition Answers eBook Subscription Services
  - Review For Vector Addition Answers Budget-Friendly Options

6. Navigating Review For Vector Addition Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Review For Vector Addition Answers Compatibility with Devices
  - Review For Vector Addition Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Review For Vector Addition Answers
  - Highlighting and Note-Taking Review For Vector Addition Answers
  - Interactive Elements Review For Vector Addition Answers
8. Staying Engaged with Review For Vector Addition Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Review For Vector Addition Answers
9. Balancing eBooks and Physical Books Review For Vector Addition Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Review For Vector Addition Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Review For Vector Addition Answers
  - Setting Reading Goals Review For Vector Addition Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Review For Vector Addition Answers
  - Fact-Checking eBook Content of Review For Vector Addition Answers
  - 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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