

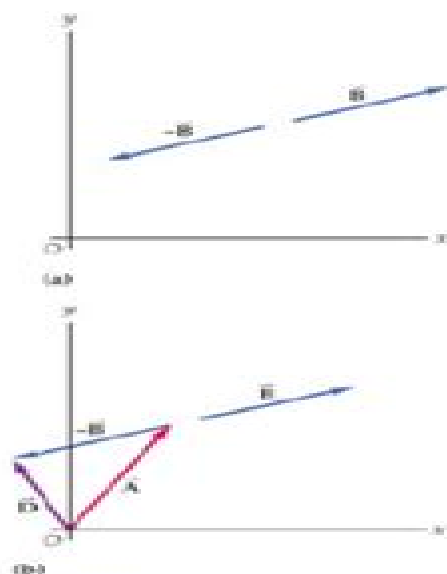


FIGURE 3-14 Vector subtraction.
(a) The vector $\vec{B}$ and its negative $-\vec{B}$.
(b) A vector construction for $\vec{D} = \vec{A} - \vec{B}$.



FIGURE 3-15 Unit vectors.
The unit vectors $\hat{x}$ and $\hat{y}$ point in the positive x and y directions, respectively.

For example, the vectors $\vec{B}$ and $-\vec{B}$ are indicated in **Figure 3-14 (a)**. Thus, to subtract $\vec{B}$ from $\vec{A}$, simply reverse the direction of $\vec{B}$ and add it to $\vec{A}$, as indicated in **Figure 3-14 (b)**.

In terms of components, you subtract vectors by simply subtracting the components. For example, if

$$\vec{D} = \vec{A} - \vec{B}$$

then

$$D_x = A_x - B_x$$

and

$$D_y = A_y - B_y$$

Once the components of $\vec{D}$ are found, its magnitude and direction angle can be calculated as usual.

EXERCISE 3-5

- For the vectors given in **Figure 3-12**, find the components of $\vec{D} = \vec{A} - \vec{B}$.
- Find D and θ and compare with the vector $\vec{D}$ shown in **Figure 3-14 (b)**.

SOLUTION

- $D_x = -1.26 \text{ m}$, $D_y = 2.96 \text{ m}$.
- $D = 3.22 \text{ m}$, $\theta = -66.9^\circ \pm 180^\circ = 113^\circ$. In **Figure 3-14 (b)** we see that $\vec{D}$ is shorter than $\vec{B}$, which has a magnitude of 4.00 m , and its direction angle is somewhat greater than 90° , in agreement with our numerical results.

3-4 Unit Vectors

Unit vectors provide a convenient way of expressing an arbitrary vector in terms of its components, as we shall see. But first, let's define what we mean by a unit vector. In particular, the unit vectors $\hat{x}$ and $\hat{y}$ are defined to be dimensionless vectors of unit magnitude pointing in the positive x and y directions, respectively:

- The x unit vector, $\hat{x}$, is a dimensionless vector of unit length pointing in the positive x direction.
- The y unit vector, $\hat{y}$, is a dimensionless vector of unit length pointing in the positive y direction.

Figure 3-15 shows $\hat{x}$ and $\hat{y}$ on a two-dimensional coordinate system. Since unit vectors have no physical dimensions—like mass, length, or time—they are used to specify direction only.

Multiplying Unit Vectors by Scalars

To see the utility of unit vectors, consider the effect of multiplying a vector by a scalar. For example, multiplying a vector by 3 increases its magnitude by a factor of 3, but does not change its direction, as shown in **Figure 3-16**. Multiplying by -3 increases the magnitude by a factor of 3 and reverses the direction of the vector. This is also shown in **Figure 3-16**. In the case of unit vectors—which have a magnitude of 1 and are dimensionless—multiplication by a scalar results in a vector with the same magnitude and dimensions as the scalar.

For example, if a vector $\vec{A}$ has the scalar components $A_x = 5 \text{ m}$ and $A_y = 3 \text{ m}$, we can write it as

$$\vec{A} = (5 \text{ m})\hat{x} + (3 \text{ m})\hat{y}$$

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Table of Contents Walker Physics 4th Edition Ch 16 Solutions

1. Understanding the eBook Walker Physics 4th Edition Ch 16 Solutions
 - The Rise of Digital Reading Walker Physics 4th Edition Ch 16 Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Walker Physics 4th Edition Ch 16 Solutions
 - 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 Walker Physics 4th Edition Ch 16 Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Walker Physics 4th Edition Ch 16 Solutions
 - Personalized Recommendations
 - Walker Physics 4th Edition Ch 16 Solutions User Reviews and Ratings
 - Walker Physics 4th Edition Ch 16 Solutions and Bestseller Lists

5. Accessing Walker Physics 4th Edition Ch 16 Solutions Free and Paid eBooks
 - Walker Physics 4th Edition Ch 16 Solutions Public Domain eBooks
 - Walker Physics 4th Edition Ch 16 Solutions eBook Subscription Services
 - Walker Physics 4th Edition Ch 16 Solutions Budget-Friendly Options
6. Navigating Walker Physics 4th Edition Ch 16 Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Walker Physics 4th Edition Ch 16 Solutions Compatibility with Devices
 - Walker Physics 4th Edition Ch 16 Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Walker Physics 4th Edition Ch 16 Solutions
 - Highlighting and Note-Taking Walker Physics 4th Edition Ch 16 Solutions
 - Interactive Elements Walker Physics 4th Edition Ch 16 Solutions
8. Staying Engaged with Walker Physics 4th Edition Ch 16 Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Walker Physics 4th Edition Ch 16 Solutions
9. Balancing eBooks and Physical Books Walker Physics 4th Edition Ch 16 Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Walker Physics 4th Edition Ch 16 Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Walker Physics 4th Edition Ch 16 Solutions
 - Setting Reading Goals Walker Physics 4th Edition Ch 16 Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Walker Physics 4th Edition Ch 16 Solutions
 - Fact-Checking eBook Content of Walker Physics 4th Edition Ch 16 Solutions
 - 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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