

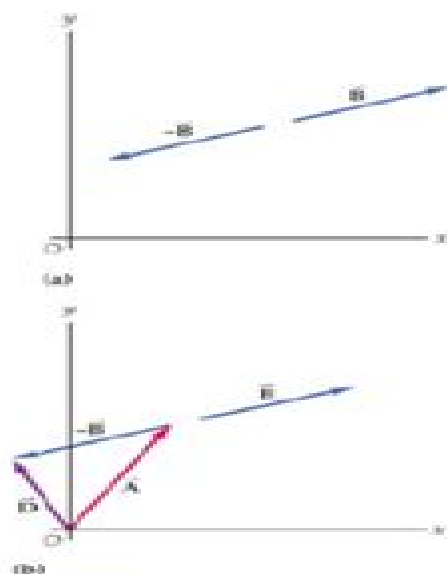


FIGURE 3-14 Vector subtraction. (a) The vector $\vec{B}$ and its negative $-\vec{B}$. (b) A vector construction for $\vec{D} = \vec{A} - \vec{B}$.

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

- $D_x = -1.26 \text{ m}$, $D_y = 2.96 \text{ m}$.
- $D = 3.22 \text{ m}$, $\theta = -66.9^\circ + 180^\circ = 113^\circ$. 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

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



FIGURE 3-15 Unit vectors.

The unit vectors $\hat{x}$ and $\hat{y}$ point in the positive x and y directions, respectively.

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Table of Contents Answers James Walker Physics 4th

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

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