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Philosophy is written in  
this grand book, the  
universe which stands  
continually open to our  
gaze. But the book  
cannot be understood  
unless one first learns

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to comprehend the language and read the letters in which it is composed.

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Physics Q.1CQ For the  
following quantities,  
indicate which is a  
scalar and which is a  
vector: (a) the time it  
takes for you to run the  
100-yard dash; (b) your  
displacement after  
running the 100-yard

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dash; (c) your average velocity while running; (d) your average speed while running. Solution:

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2020 7.(†) The sum,  
 $\sim a + \sim b$  or  $a + b$ ; of two  
vectors  $\sim a(a)$  and  
 $\sim b(b)$  is de ned as  
follows. Translate  $b$  so  
that the tail of  $b$  meet



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the head of  $a$ . Connect the tail of  $a$  and the head of  $b$ . The tail of the resultant vector  $a + b$  is that of  $a$ . The head of the resultant vector  $a + b$  is that of  $b$ .

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CHAPTER 3: Kinematics  
in Two Dimensions;  
Vectors Answers to  
Questions 1. Their  
velocities are NOT  
equal, because the two  
velocities have  
different directions. 2.  
(a) During one year,  
the Earth travels a

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distance equal to the circumference of its orbit, but has a displacement of 0 relative to the Sun.

## **CHAPTER 3: Kinematics in Two Dimensions; Vectors Answers ...**

Figure 3-2 (a) AC is the vector sum of the vectors AB and BC. b) The same vectors relabeled. In Fig. 3-2b, we redraw the vectors of Fig. 3-2a and relabel

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them in the way that we shall use from now on, namely, with an arrow over an italic symbol, as in  $\vec{v}$ . If we want to indicate only the magnitude of the vector (a quantity that lacks a sign or direction), we shall use the italic symbol, as in  $v$ .

## **VECTORS - Rod's Home**

To add vectors, merely express both of them in terms of their

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horizontal and vertical components and then add the components together. Vector with Horizontal and Vertical Components: The vector in this image has a magnitude of 10.3 units and a direction of 29.1 degrees above the x-axis. It can be decomposed into a horizontal part and a vertical ...

**3.2: Vectors -**

*Page 13/26*

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- تاهجتم لوالا

نودجت Vectors

و لم الكلاب ةسلسلا

ةقيرطب ىرخا تاحورش

... ةمظنم

**physics 101 chapter**

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CHAPTER 3 Two-

Dimensional Motion

and Vectors

Representations:  $x y$

$(x, y) (x, y) (r, \theta)$

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VECTOR quantities:

Vectors have magnitude and direction. Other vectors: velocity, acceleration, momentum, force ...

Vector

Addition/Subtraction •

2nd vector begins at end of first vector •

Order doesn't matter

Vector addition Vector subtraction  $A - B$  ...

**Vectors have magnitude Two-**

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Vectors have length and are directional. They are arrows. Many



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problems in physics will utilize these arrows. We will use trig to add and subtract these arrows. What are unit vectors? More ways to add vectors I,II,III . You can add as many vectors together as you wish. All you have to do is put them together in any fashion 'head-to-tail'

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PHYSICS 231  
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INTRODUCTORY

PHYSICS I Lecture 3 •

HW 2 due: Wednesday  
Jan 23 @ 3:59 am •

(MLK Jr. Day on Jan 21)

- Note: related reading for each lecture listed on Calendar page at PHY 231 website

Announcement. Main points of last lecture ...

CHAPTER 3 Two-Dimensional Motion and Vectors.

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Chapter 1 Vectors;  
Chapter 2 Accelerated  
Linear Motion; Chapter  
3 Projectile Motion;  
Chapter 4 Relative  
Velocity; Chapter 5  
Newton's Laws and  
Connected Particles;  
Chapter 6 Work and  
Energy; Chapter 7  
Impacts and Collisions;  
Nuclear Physics; Taylor  
MacLaurin Expansion;  
Thermodynamics and  
Statistical Mechanics.  
Einstein Solids; Gibbs'

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Check Your

Understanding 3.1 (a)

The rider's

displacement is  $\Delta x = x$

$f - x_0 = -1 \text{ km}$   $\Delta x =$

$x_f - x_0 = -1 \text{ km} .$

(The displacement is

negative because we t

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Physics Outline 3.1

Scalars versus Vectors

3.2 The Components of

a Vector 3.3 Adding

and Subtracting

Vectors 3.4 Adding and

Subtracting Vectors by

Components and Unit

Vectors 3.5 Position,

Displacement, Velocity,

and acceleration

Vectors 368 Relative

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Motion Summary This chapter moves the concepts of position ...

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Physics: Principles with Applications (7th Edition) answers to Chapter 3 - Kinematics in Two Dimensions; Vectors - Misconceptual Questions - Page 67 3 including work step by

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**Chapter 3 -  
Kinematics in Two  
Dimensions; Vectors**

...

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University Physics 231  
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Chapter 1 Chapter 1 2.

Vectors Chapter 4

Chapter 1 3. Motion

Along a Straight Line

Chapters 2, 3 Chapter

2 4.

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Vectors in Physics 3-1  
Scalars Versus Vectors  
56 3-2 The  
Components of a

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