

Study Guide Holt Physics Chapter 3—Two-dimensional Motion and Vectors

I. Section 3-1—Introduction to Vectors

A. Scalars and Vectors

1. Magnitude and Direction

- In chapter 2 we discussed velocity. Velocity has both a magnitude and a direction.
- Magnitude:** a measurement represented by a number (e.g. -12 meters/second)
- Direction:** an indication of orientation. For velocities we use a positive number for right or up and a negative number for left or down.

2. Velocity is an example of a **VECTOR**. Vectors always have both a direction and a magnitude

- Vectors are differentiated from scalars in your book by using **BOLD** type.
- Vectors are also represented by arrows. The longer the arrow the more magnitude the vector has.

3. Speed is an example of a **SCALAR**. Scalars only have a magnitude.

B. Properties of vectors

1. Vectors can be added graphically

- When adding vectors, you must make sure that they have the same units and describe similar quantities.
- The answer found by adding vectors together is called the **resultant**.



Figure 3(a)



Figure 3(b)

- Vectors can only be moved parallel to themselves in a diagram. (see fig 3.3 on p.86)

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Holt Physics ,2000-12 *Holt Physics* Raymond A. Serway,2006 **Physics** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2006 Tstgen Holt Rinehart & Winston,1998-04 **A Guidebook for Teaching Physics** William Yurkewicz,1985 **The Project Physics Course: Reader** Harvard Project Physics,1970 **Physics Briefs** ,1994 The Project Physics Course: Reader: The nucleus F. James Rutherford,Harvard Project Physics,1970 Foundations of Physics Walter Christian Michels,Malcolm Correll,Arthur Lindo Patterson,1968 *The Project Physics Course: Reader: Concepts of motion* Harvard Project Physics,1970 **An Introduction to Physics** Harvard Project Physics,1968 **Official Gazette** Philippines,2007 **NASA Scientific and Technical Reports** United States. National Aeronautics and Space Administration Scientific and Technical Information Division,1970 **Physical Science: a Systematic Approach** Francis W. McCarthy,Joan H. Brenner,Maurice Temple,1972 **Microwave Remote Sensing of Sea Ice** Frank D. Carsey,1992-04-08 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 68 Human activities in the polar regions have undergone incredible changes in this century Among these changes is the revolution that satellites have brought about in obtaining information concerning polar geophysical processes Satellites have flown for about three decades and the polar regions have been the subject of their routine surveillance for more than half that time Our observations of polar regions have evolved from happenstance ship sightings and isolated harbor icing records to routine global records obtained by those satellites Thanks to such abundant data we now know a great deal about the ice covered seas which constitute about 10% of the Earth s surface This explosion of information about sea ice has fascinated scientists for some 20 years We are now at a point of transition in sea ice studies we are concerned less about ice itself and more about its role in the climate system This change in emphasis has been the prime stimulus for this book **The Publishers' Trade List Annual** ,1978 International Aerospace Abstracts ,1999 Comprehensive Dissertation Index: Mathematics & statistics. Physics, A-E ,1984 **British Books in Print** ,1978 The Education Index ,1984

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