

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 Raymond A. Serway, 2002 **Physics** Holt Rinehart & Winston, 2001-02 A Guidebook for Teaching Physics William Yurkewicz, 1985 **Langevin Equation, The: With Applications To Stochastic Problems In Physics, Chemistry And Electrical Engineering (2nd Edition)** William T Coffey, Yuri P Kalmykov, John T Waldron, 2004-03-03 This volume is the second edition of the first ever elementary book on the Langevin equation method for the solution of problems involving the Brownian motion in a potential with emphasis on modern applications in the natural sciences electrical engineering and so on It has been substantially enlarged to cover in a succinct manner a number of new topics such as anomalous diffusion continuous time random walks stochastic resonance etc which are of major current interest in view of the large number of disparate physical systems exhibiting these phenomena The book has been written in such a way that all the material should be accessible to an advanced undergraduate or beginning graduate student It draws together in a coherent fashion a variety of results which have hitherto been available only in the form of research papers or scattered review articles **Physics: Its Structure and Evolution** William A. Blanpied, 1969 Project Physics Course: Text and Handbook: Concepts of motion Harvard Project Physics, 1970 **Physics**, 1977 *Children's Books in Print* R R Bowker Publishing, Bowker, 1999-12 *Applied Mechanics Reviews*, 1970 Holt Algebra 1 2003 Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003

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