

## 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)

# Holt Physics Chapter 2answers

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## **Holt Physics Chapter 2 answers:**

*Holt Physics* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998-03      **Holt Physics**, 2000-12      **Physics** Holt Rinehart & Winston, 2000-12      **Advanced Physics for You** Keith Johnson, Simmone Hewett, Sue Holt, John Miller, 2000  
Designed to be motivating to the student this title includes features that are suitable for individual learning It covers the AS Level and core topics of almost all A2 specifications      **Holt Science and Technology** Holt, Rinehart and Winston Staff, 2001      A Textbook of Nuclear Physics Colin Michael Holt Smith, 1965      Soft Matter Physics Maurice Kleman, Oleg

D. Laverntovich, 2007-05-28 Introductions to solid state physics have ever since the initial book by F Seitz in 1940 concentrated on simple crystals with few atoms per cell bonded together by strong ionic covalent or metallic bonds References to weaker bonds such as van der Waals forces in rare gases or to geometric or chemical disorder e g alloys or glasses have been limited The physical understanding of this eld started well before Seitz s book and led to a number of Nobel prizes after the last war Applications cover classical metallurgy el tronics geology and building materials as well as electrical and ionic transport chemical reactivity ferroelectricity and magnetism But in parallel with this general and well publicized trend and sometimes earlier as far as physical concepts were concerned an exploration and increasingly systematic study of softer matter has developed through the twentieth century More often in the hands of physical chemists and crystallographers than those of pure physicists the eld had for a long time a reputation of complexity If progress in polymers was steady but slow interest in liquid crystals had lain dormant for forty years after a bright start lasting through 1925 to be revived in the late 1960s based on their possible use in imaging techniques The optoelectronic properties of the eld in general are even more recent      Tstgen Holt Rinehart & Winston, 1998-04      *Books in Print Supplement*, 2002

*Holt General Science* William L. Ramsey, 1988      **Physics for Scientists and Engineers** Lawrence S. Lerner, 1997 This refreshing new text is a friendly companion to help students master the challenging concepts in a standard two or three semester calculus based physics course Dr Lerner carefully develops every concept with detailed explanations while incorporating the mathematical underpinnings of the concepts This juxtaposition enables students to attain a deeper understanding of physical concepts while developing their skill at manipulating equations      **Holt Chemistry** Ralph Thomas Myers, 2004      *Gaither's Dictionary of Scientific Quotations* Carl C. Gaither, Alma E. Cavazos-Gaither, 2012-01-05 This unprecedented collection of 27 000 quotations is the most comprehensive and carefully researched of its kind covering all fields of science and mathematics With this vast compendium you can readily conceptualize and embrace the written images of scientists laymen politicians novelists playwrights and poets about humankind s scientific achievements Approximately 9000 high quality entries have been added to this new edition to provide a rich selection of quotations for the student the educator and the scientist who would like to introduce a presentation with a relevant quotation that provides perspective and historical background on his subject Gaither s Dictionary of Scientific Quotations Second Edition provides the finest

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