

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

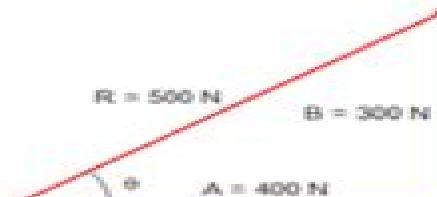
### I. Section 3-1—Introduction to Vectors

#### A. Scalars and Vectors

1. **Magnitude and Direction**
  - a. In chapter 2 we discussed velocity. Velocity has both a magnitude and a direction.
  - b. **Magnitude:** a measurement represented by a number (e.g. -12 meters/second)
  - c. **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.
  - a. Vectors are differentiated from scalars in your book by using **BOLD** type.
  - b. 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
  - a. When adding vectors, you must make sure that they have the same units and describe similar quantities.
  - b. The answer found by adding vectors together is called the **resultant**.



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

# Holt Physics Two Dimensional Motion And Vectors

**Harvard Project Physics**

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