

**PHYSICS STUDY GUIDE**  
**CHAPTER 4: VECTORS**

**TOPICS:**

- Vectors

**WHAT YOU MUST KNOW**

- Identify vector physical quantities
- Label a vector
- Add two vectors
- Add multiple vectors
- Find the x-component and y-component of .



I'm applying for a villain loan. I go by Vector. It's a mathematical term, represented by an arrow with both magnitude and direction. Vector! That's me, because I commit crimes with both direction and magnitude. Oh yeah!

**DEFINITIONS**

- **Vector:** Physical quantity that requires magnitude and direction.
- **Resultant:** Addition of two or more vectors
- **Vector component:** decomposition of a vector resultant in a horizontal component (x-direction) and a vertical component (y-direction)

**VECTOR PHYSICAL QUANTITIES STUDIED IN CLASS (SO FAR)**

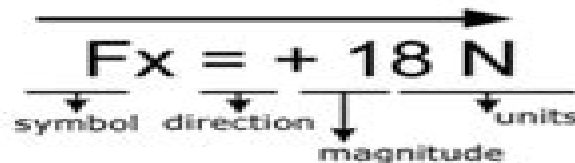
- |                |    |              |              |
|----------------|----|--------------|--------------|
| • $d_x$        | or | $d_y$        | Position     |
| • $\Delta d_x$ | or | $\Delta d_y$ | Displacement |
| • $v_x$        | or | $v_y$        | velocity     |
| • $a_x$        | or | $a_y$        | Acceleration |
| • $F_x$        | or | $F_y$        | Force        |

**REPRESENTING VECTORS**

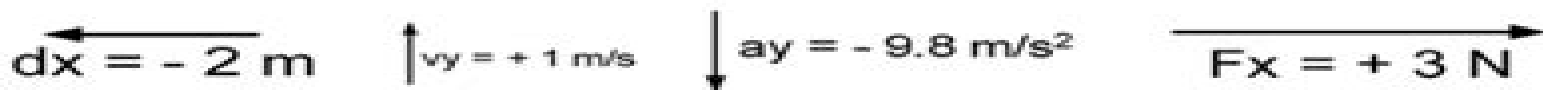
- Vectors are represented with arrows:
  - The length of the arrow represents the magnitude (number) of the vector.
  - The tip of the arrow represents the direction of the vector.

**LABELING VECTORS**

- Labeling vectors include:
  - Symbol
  - Direction
  - Magnitude
  - Units



**EXAMPLES:**



# Chapter 4 Physics Study Guide

**Craig T. Smith**



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