

Vectors

This chapter serves a dual purpose. First, it will help you to do the addition and subtraction of vectors in the chapter in your text on vectors and the vector problems in the chapters on motion and forces. Second, it will serve as a reference for those topics involving vector products, especially the definitions of work and torque encountered in mechanics.

Certain physical quantities such as mass or temperature are described with a number called a **scalar**. Other quantities, such as displacement, velocity, or force, have a direction associated with them and are called **vectors**. Operationally, a vector is an arrow oriented in space with the length (of the arrow) representing the number and the orientation, the direction. Vectors can be placed anywhere on a coordinate system so long as they maintain their required length and orientation.

Number Plus Angle and Components

A vector can be described with a number and an angle as $A = 23<37^\circ$. In performing the basic mathematical operations of addition, subtraction, multiplication, and division, it is more convenient to write vectors in component form. If A were placed with the tail (of the vector) at the origin of a coordinate system, then the x and y components could be written as shown in Fig. 1-1.

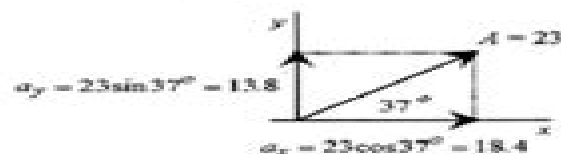


Fig. 1-1

It is very important in the use of vectors to be able to go from the number plus angle format to component format quickly and accurately. Before going any further in this chapter review the basic trigonometric relations and the formulas for going from number plus angle to components and vice versa (Fig. 1-2). And if you are at all unsure of yourself make up a 3×5 card with figure and formulas and review it several times a day until you can perform the operations without hesitation.

A vector $A = A < \theta$ has components as shown in Fig. 1-2. (The bold type represents the vector, and the normal type represents the number associated with that vector.) If the components, a_x and a_y , are given, then the number plus angle form can be obtained with the trigonometric relations on the left side of Fig. 1-2.

$$A = \sqrt{a_x^2 + a_y^2}$$

$$\tan \theta = \frac{a_y}{a_x}$$

$$\theta = \tan^{-1} \frac{a_y}{a_x}$$

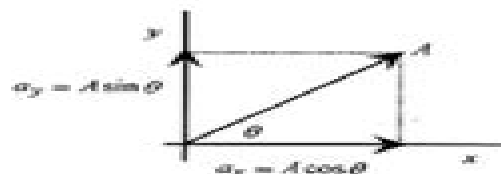


Fig. 1-2

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