

I. Vectors and Geometry in Two and Three Dimensions

§I.1 Points and Vectors

Each point in two dimensions may be labeled by two coordinates (a, b) which specify the position of the point in some units with respect to some axes as in the figure on the left below. Similarly, each point in three dimensions may be labeled by three coordinates (a, b, c) . The set of all points in two dimensions is



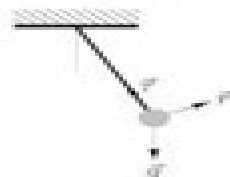
denoted $\mathbb{R}^2$ and the set of all points in three dimensions is denoted $\mathbb{R}^3$. The distance from the point (x, y, z) to the point (x', y', z') is $\sqrt{(x-x')^2 + (y-y')^2 + (z-z')^2}$ so that the equation of the sphere centered on $(1, 2, 3)$ with radius 4 is $(x-1)^2 + (y-2)^2 + (z-3)^2 = 16$.

A **vector** is a quantity which has both a direction and a magnitude, like a velocity or a force. To specify a vector in three dimensions you have to give three components, just as for a point. To draw the vector with components a, b, c you can draw an arrow from the point $(0, 0, 0)$ to the point (a, b, c) . Similarly, to



specify a vector in two dimensions you have to give two components and to draw the vector with components a, b you can draw an arrow from the point $(0, 0)$ to the point (a, b) .

There are many situations in which it is preferable to draw a vector with its tail at some point other than the origin. For example, suppose that you are analyzing the motion of a pendulum.



There are three forces acting on the pendulum bob: gravity $\vec{g}$, which is pulling the bob straight down, tension $\vec{T}$ in the rod, which is pulling the bob in the direction of the rod, and air resistance $\vec{R}$, which is pulling the

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O García



Vectors In Two Or Three Dimensions Vectors In Two Or Three Dimensions:

The Enigmatic Realm of **Vectors In Two Or Three Dimensions Vectors In Two Or Three Dimensions**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Vectors In Two Or Three Dimensions Vectors In Two Or Three Dimensions** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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