

UNIT 4 COORDINATE GEOMETRY

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4.1 INTRODUCTION

The French philosopher-mathematician Rene Descartes (1596-1650) was the first to realise that geometrical ideas can be translated into algebraic relations. This enabled him to write his book *La Geometrie* (in 1637) in which geometry was studied systematically by using algebra. The combination of algebra and plane geometry came to be known as **Coordinate Geometry**. The name coordinate geometry, or analytic geometry, was given because of the fact that numbers (called coordinates) which are associated with points of some "plane" or "space" are employed in this study. A basic necessity for the study of coordinate geometry is, thus, the introduction of a **coordinate system** and to define 'coordinates' in the concerned space.

In this unit we have introduced coordinate systems in both two and three-dimensions. Area of a triangle in terms of the coordinates of three points in two-dimensional space has been obtained. Also, the formulas for the equation of a straight line passing through two points both in two and three dimension, the equations of a circle, plane and a sphere have been derived in this unit.

Objectives

After reading this unit, you should be able to

- locate the position of a point in a plane or in a space;
- determine the distance between two points;
- divide a line in any given ratio;
- calculate the area of a triangle and a quadrilateral;
- find the equation of a straight line, a circle and a sphere.

4.2 TWO DIMENSIONAL COORDINATE SYSTEM

In Unit 2 (Sec. 2.2) we have already familiarised you with the two-dimensional coordinate system. You know that if O be any point in a plane then the two lines $X'OX$ and $Y'OY$ at right angle to each other are used as the base lines to locate the position of any point P in the plane (Fig. 1).

If from the point P perpendiculars PM and PN are drawn on the lines $X'OX$ and $Y'OY$ respectively and M represents the number x on $X'OX$ and N represents the number y on $Y'OY$ then the coordinates of P are given by the **ordered pair** (x, y) , usually written as

Rene Descartes (1596-1650)

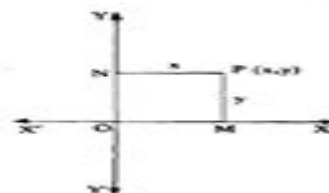


Fig. 1 : Two-dimensional rectangular coordinate system

Unit 4 Coordinate Algebra Vocabulary

Kathleen Armour



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