Coordinate Geometry



The Cartesian coordinate system specifies the location of any point on a plane using an ordered pair of numbers (x, y), also known as coordinates. The invention of the Cartesian coordinate system by René Descartes was said to be one of the greatest mathematical achievements. His invention made it possible to relate geometrical objects such as points, lines, curves, and shapes,

triphac expressions and equations. This "marriage" between algebra and geometry is a classic maple of how mathematicians have developed new and powerful ideas by connecting different maps in mathematics. In this chapter, we will begin to relate some of the geometrical objects to spless expressions and equations through the seemingly simple notation of the coordinate system.

Learning Outcomes

What will we learn in this chapter?

- How to find the length and the midpoint of a line segment given the coordinates of its endpoints
- How to find the gradient of a straight line given the coordinates of two points on it, or given that it is parallel or perpendicular to a given line
- How to interpret and find the equation of a straight line graph in the form y = mx + c
- How to solve geometry problems involving the use of coordinates

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