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about this unit in analytic geometry also known as coordinate geometry we think about geometric objects on the coordinate plane for example we can see that opposite sides of a parallelogram are parallel by writing a linear equation for each side and seeing that the slopes are the same in mathematics analytic geometry also known as coordinate geometry or cartesian geometry is the study of geometry using a coordinate system this contrasts with synthetic geometry analytic geometry is used in physics and engineering and also in aviation rocketry space science and spaceflight in analytical geometry we aim at presenting the geometric figures using algebraic equations in a two dimensional coordinate system or in a three dimensional space analytical geometry includes the basic formulas of coordinate geometry equations of a line and curves translation and rotation of axes and three dimensional geometry concepts

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galileo first discovered them he initially thought they were moons 12 0 prelude to analytic geometry in this chapter we will investigate the two dimensional figures that are formed when a right circular cone is intersected by a plane we will begin by studying each of three figures created in this manner this free textbook is an openstax resource written to increase student access to high quality peer reviewed learning materials analytic geometry mathematical subject in which algebraic symbolism and methods are used to represent and solve problems in geometry the importance of analytic geometry is that it establishes a correspondence between geometric curves and algebraic equations the fundamental concepts of analytic geometry are the simplest geometric elements points straight lines planes second order curves and surfaces the principal means of study in analytic geometry are the method of coordinates and the methods of elementary algebra analytic geometry is that branch of algebra in which the position of the point on the plane can be located using an ordered pair of numbers called as coordinates this is also called coordinate geometry or the cartesian geometry analytic geometry is a contradiction to the synthetic geometry where there is no use of coordinates or formulas analytic geometry relates geometric figures to the coordinates

algebraic representations let's review the coordinate plane distance and displacement slope and a few helpful arithmetic skills to get ready the revolution of analytic geometry was to marry algebra and geometry using axes and coordinates modern geometry is primarily analytic and it is now rare to find a mathematician working solely in synthetic geometry algebra's domination of euclidean geometry is total analytic geometry investigation of geometric objects using coordinate systems because René Descartes was the first to apply algebra to geometry it is also known as cartesian geometry it springs from the idea that any point in two dimensional space can be represented by two numbers and any point in three dimensional space by three analytic geometry formulas 1 lines in two dimensions line forms slope intercept form $y = mx + b$ two point form $\frac{y - y_1}{y_2 - y_1} = \frac{x - x_1}{x_2 - x_1}$ point slope form $y - y_1 = m(x - x_1)$ intercept form $\frac{x}{a} + \frac{y}{b} = 1$ normal form $x \cos \theta + y \sin \theta = p$ parametric form $x = a \cos t$ $y = b \sin t$

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are the simplest geometric elements points straight lines planes second order curves and surfaces the principal means of study in analytic geometry are the method of coordinates and the methods of elementary algebra

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