



MODULE 4: ANALYTIC GEOMETRY

UNIT 1: STRAIGHT LINES

Learning outcomes:

At the end of the module, you should have achieved the following topic learning outcomes:

1. Determine the equation of a straight line using the point-slope form, the slope-intercept form, intercept form, and the normal form.
2. Determine the equations of parallel and perpendicular lines.

The Straight Line

A polynomial whose highest power is one represents a straight line. In this section, we will limit our discussion for the straight lines in the standard form $Ax + By = C$.

Recall: Two points determine a line. This statement simply tells us that we just need two points on the Cartesian plane to be able to draw the line.

A. Point-Slope Form: $y - y_1 = m(x - x_1)$

If we are given a point on the line, say $P_1(x_1, y_1)$ and the slope of the line m , we can determine the equation of the line.

Example 1: Given the slope of the line is $m = \frac{1}{2}$ and the line passes through the point $P_1(2, -3)$. Determine the equation of the line.

Using the point-slope form of the line: $y - y_1 = m(x - x_1)$, we substitute the slope and the given point.

$$\begin{aligned}y - y_1 &= m(x - x_1) \\y - (-3) &= \frac{1}{2}(x - 2) \\2(y + 3) &= (x - 2) \\2(y + 3) &= (x - 2) \\2y + 6 &= x - 2 \\x - 2y &= 8\end{aligned}$$

Example 2: Given the slope of the line is $m = -5$ and the line passes through the point $P_1\left(\frac{3}{4}, 0\right)$. Determine the equation of the line.

Using the point-slope form of the line: $y - y_1 = m(x - x_1)$, we substitute the slope and the given point.

$$\begin{aligned}y - y_1 &= m(x - x_1) \\y - 0 &= -5\left(x - \frac{3}{4}\right) \\y &= -5x + \frac{15}{4} \\5x + y &= \frac{15}{4} \\20x + 4y &= 15\end{aligned}$$

Analytic Geometry Unit 1

DP Hallahan

Analytic Geometry Unit 1:

Decoding **Analytic Geometry Unit 1**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Analytic Geometry Unit 1**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Analytic Geometry Unit 1 Introduction

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