A Compilation of Analytic Geometry Formulas with Examples and Detailed Solutions

Analytic geometry is a branch of mathematics that combines geometry with algebra, allowing us to study geometric shapes and properties using equations and coordinates. In this article, we will explore a collection of important analytic geometry formulas, along with examples and comprehensive solutions to help you understand and apply these essential principles effectively.

1. Distance Formula

The distance between two points in a Cartesian coordinate system can be found using the distance formula:

Distance Formula: If two points have coordinates (x_1, y_1) and (x_2, y_2), then the distance between them is given by:

$$D = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Example Problem 1: Find the distance between points A(2, 3) and B(5, 7).

Solution: Using the distance formula, $D = \sqrt{(5 - 2)^2 + (7 - 3)^2} = \sqrt{3^2 + 4^2} = \sqrt{9 + 16} = \sqrt{25} = 5$.

So, the distance between points A and B is 5 units.

2. Midpoint Formula

The midpoint between two points with coordinates (x_1, y_1) and (x_2, y_2) can be found using the midpoint formula:

Midpoint Formula: The midpoint M has coordinates:

$$M(x, y) = ((x_1 + x_2) / 2, (y_1 + y_2) / 2)$$

Example Problem 2: Find the midpoint between points P(3, 2) and Q(7, 6).

Solution: Using the midpoint formula, $M = ((3 + 7) / 2, (2 + 6) / 2) = (5, 4)$.

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