

# 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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**Brendan G. Carr**



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