

How can I use the SUMXMY2 function in Excel to calculate the sum of squared differences between two sets of data?

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The SUMXMY2 function in Excel is a mathematical formula that allows users to easily calculate the sum of squared differences between two sets of data. This function takes two arrays of numbers as inputs and computes the squares of the differences between each corresponding value in the arrays, and then adds them together to give the total sum of squared differences. This can be useful in various applications, such as analyzing the variance between two datasets or determining the accuracy of predictions. By using the SUMXMY2 function, users can efficiently and accurately calculate the sum of squared differences in their data, saving time and effort compared to manual calculations.

This article describes the formula syntax and usage of the **SUMXMY2** function in Microsoft Excel.

Description

Returns the sum of squares of differences of corresponding values in two arrays.

Syntax

SUMXMY2(array_x, array_y)

The SUMXMY2 function syntax has the following arguments:

Array_x Required. The first array or range of values.

Array_y Required. The second array or range of values.

Remarks

The arguments should be either numbers or names, arrays, or references that contain numbers.

If an array or reference argument contains text, logical values, or empty cells, those values are ignored; however, cells with the value zero are included.

If array_x and array_y have a different number of values, SUMXMY2 returns the #N/A error value.

The equation for the sum of squared differences is:

$$\text{SUMXMY2} = \sum (x - y)^2$$