

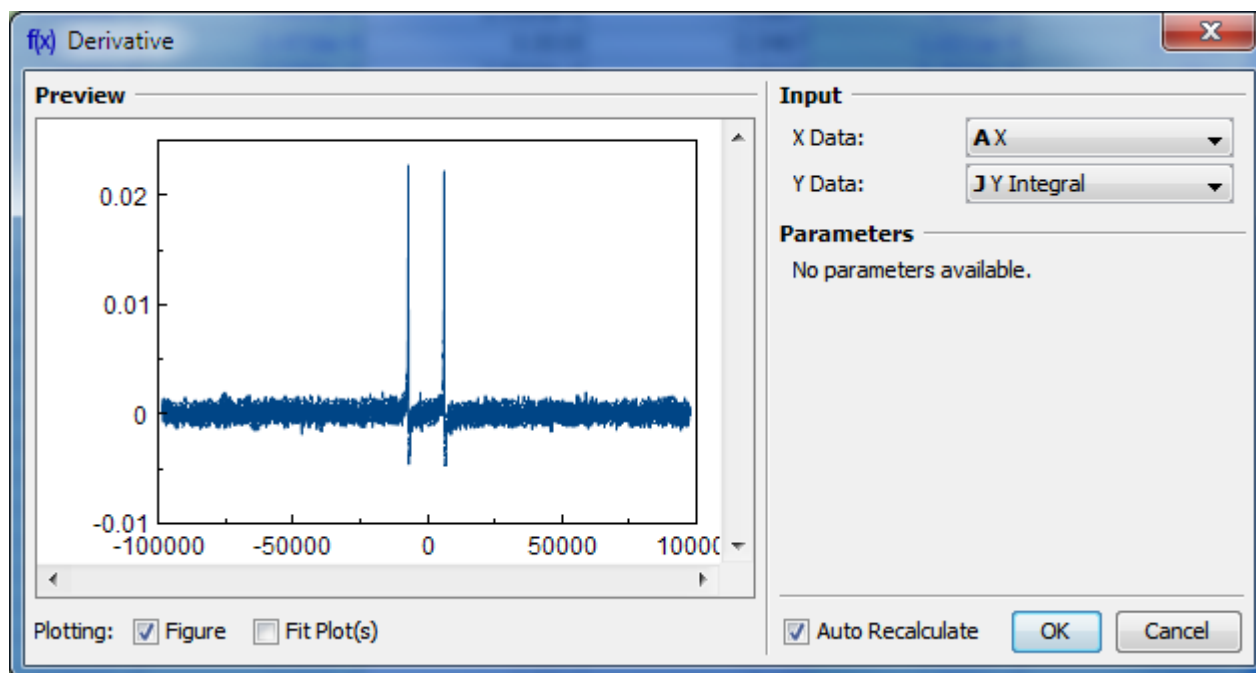
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# Differentiation

Open Table or Figure or Plot with initial data and use Processing → Differentiate menu item.



## Algorithm

To perform differentiation you should specify two columns: x and y. Missing values are ignored.

MagicPlot uses [central difference](#) formula to compute the derivative:

First and last points ( $i=1$  and  $i=N$ ) are computed as follows:

$$y'_1 = \frac{y_2 - y_1}{x_2 - x_1}, \quad y'_N = \frac{y_N - y_{N-1}}{x_N - x_{N-1}}$$

## See Also

- [Data Processing and Auto Recalculation](#)
- [Integration](#)

From: <https://magicplot.com/wiki/> - **MagicPlot Manual**

Permanent link: <https://magicplot.com/wiki/differentiation>

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