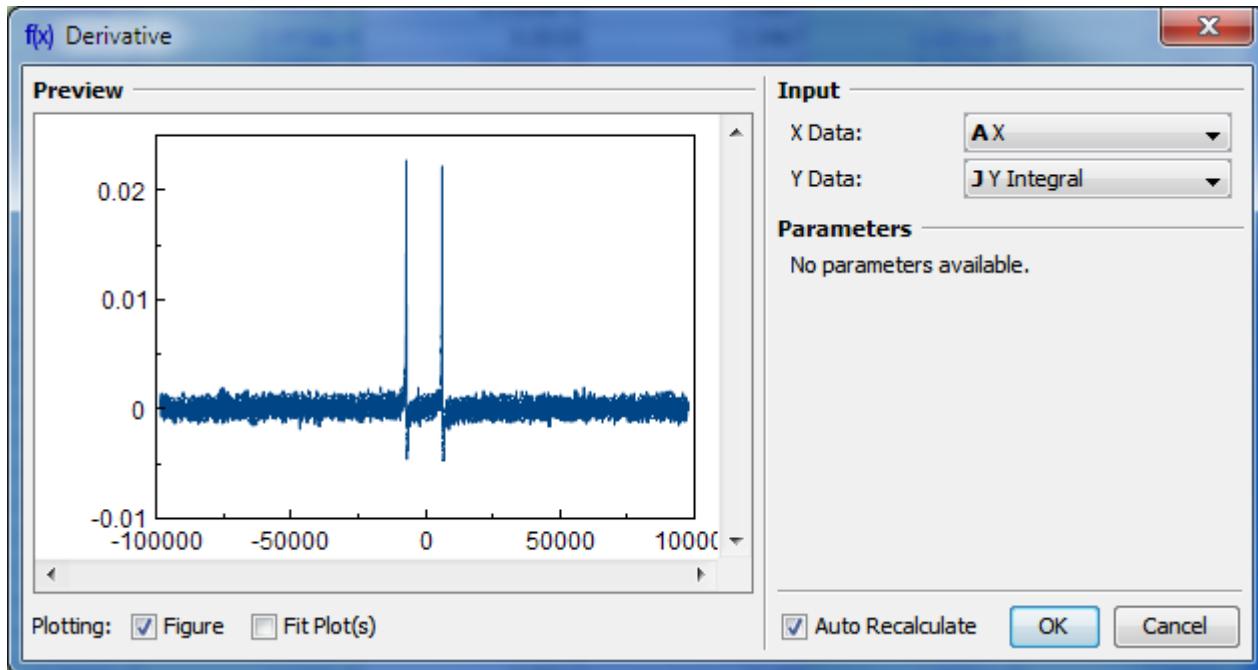


Table of Contents

Differentiation	1
<i>Algorithm</i>	1
<i>See Also</i>	1

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 $j=N$) are computed as follows:
 $y'_1 = \frac{y_2 - y_1}{x_2 - x_1}$, $y'_N = \frac{y_N - y_{N-1}}{x_N - x_{N-1}}$

See Also

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

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

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

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