#### STEYX

[Syntax](Syntax.docx):

STEYX ( known-ys , known-xs )

Description: Computes the standard error of the predicted y-value for each x in the regression. The standard error is a measure of the amount of error in the prediction of y for an individual x.

Mathematical Formula:



where x and y are the sample means AVERAGE(known-xs) and AVERAGE(known-ys), and [n](n.docx) is the sample size.

Arguments:

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| known-xs | number, name, array, or [reference](reference.docx) to number, text, logical | Designate a set of numeric dependent data points. Logical values and text representations of numbers entered directly into the list of arguments are included. If an array or [reference](reference.docx) argument contains text, logical values, or empty cells, those values are ignored; however, cells with the value 0 are included.  |
| known-ys | number, name, array, or [reference](reference.docx) to number, text, logical | Designate a set of numeric independent data points. Logical values and text representations of numbers entered directly into the list of arguments are included. If an array or [reference](reference.docx) argument contains text, logical values, or empty cells, those values are ignored; however, cells with the value 0 are included. |

Return Type and Value: number – The standard error of the predicted y-value for each x in the regression.

However, if

* known-ys and known-xs have a different number of data points, the return value is unspecified.
* known-ys and known-xs are empty or have less than three data points, the return value is unspecified.

[Example:

STEYX({2,3,9,1,8,7,5},{6,5,11,7,5,4,4}) results in 3.30571895

end example]