

STEYX function - The function returns the standard error of the predicted value of y for each value of x in regression in Excel

STEYX function: The function returns the standard error of the predicted value of y for each value of x in the regression. Syntax: STEYX (known_ys, known_xs)

The following article introduces you to the **STEYX** function - one of the functions in the statistical function group is very popular in Excel.

Hàm STEYX

Description: The function returns the standard error of the predicted value of y for each value of x in the regression.

Syntax: STEYX (known_y's, known_x's)

Inside:

- **known_y's:** Array or range of dependent data points, is a required parameter.
- **known_x's:** An independent data point or range, which is a required parameter.

Attention:

- Arguments can be numbers, names or arrays that contain numbers.
- When typing logical values ??and presenting text numbers into function arguments -> these values ??are still counted, but cells with 0 value will still be counted.
- Function error occurs when arguments are text or error values ??cannot be converted.
- If **known_y's** and **known_x's** have a different number of data points -> the function returns the # N / A error value .

- If **known_y's** and **known_x's** are empty or have fewer than three data points -> the function returns the # **DIV / 0** error value .

- The equation for standard errors is:

$$\left[\sqrt{\frac{1}{n-2} \left(\sum (y - \overline{y})^2 - \frac{\left(\sum (x - \overline{x})(y - \overline{y}) \right)^2}{\sum (x - \overline{x})^2} \right)} \right]$$

Inside:


+ **x** is the sample mean **AVERAGE (number1, number2, .)**

+ **n** is the sample size.

For example:

Calculate the standard error of the predicted value of y for each value of x in the regression of the values ??in the following data table:

STT	know_y's	know_x's
1	12	1
2	6	2
3	29	14
4	14	96
5	28	39
6	46	26
7	66	21

Sai số chuẩn của giá trị y dự đoán cho mỗi giá trị x trong hồi quy là: 

ThuThuatPhanMem.vn

- In the cell to calculate enter the formula : = **STEYX (C6: C12, D6: D12)**

Hàm STEYX trong Excel			
<i>Nhóm hàm thống kê</i>			
STT	know_y's	know_x's	
1	12	1	
2	6	2	
3	29	14	
4	14	96	
5	28	39	
6	46	26	
7	66	21	
13	Sai số chuẩn của giá trị y dự đoán cho mỗi giá trị x trong hồi quy là:		=STEYX(C6: C12, D6:D12)

- Press **Enter** -> the standard error of the predicted y value for each value of x in the regression is:

Hàm STEYX trong Excel			
<i>Nhóm hàm thống kê</i>			
STT	know_y's	know_x's	
1	12	1	
2	6	2	
3	29	14	
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5	28	39	
6	46	26	
7	66	21	
13	Sai số chuẩn của giá trị y dự đoán cho mỗi giá trị x trong hồi quy là:		23.20

- If the number of data points of **know_y's** and **know_x's** are different -> the function returns the # N / A error value .

D13 : X ✓ fx =STEYX(C6:C12,D6:D8)

STT	know_y's	know_x's
1	12	1
2	6	2
3	29	14
4	14	
5	28	
6	46	
7	66	

Sai số chuẩn của giá trị y dự đoán cho mỗi giá trị x trong hồi quy là: #N/A

- If the number of data points of **know_y's** and **know_x's** is smaller than 3 data points -> the function returns the **#DIV / 0** error value .

D13 : X ✓ fx =STEYX(C6:C7,D6:D7)

STT	know_y's	know_x's
1	12	1
2	6	2
3		
4		
5		
6		
7		

Sai số chuẩn của giá trị y dự đoán cho mỗi giá trị x trong hồi quy là: #DIV/0!

Above are instructions and some specific examples when using the **STEYX** function in Excel.

Good luck!

You finished reading the article "**STEYX function - The function returns the standard error of the predicted value of y for each value of x in regression in Excel**" edited by the [TipsMake](#) team. We hope this

article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.
