

# TREND - The function returns values ??in a linear trend in Excel

TREND: The function returns values ??in a linear trend. Syntax: TREND (known\_ys, [known\_xs], [new\_xs], [const])

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

## Hàm TREND

**Description:** The function returns values ??in a linear trend.

**Syntax:** TREND (known\_y's, [known\_x's], [new\_x's], [const])

Inside:

- **known\_y's** : The set of known y values ??in the relationship  $y = b * m ^ x$  , is a required parameter.
- + If **known\_y's** is in a single column or row -> each **known\_y's** column or row is interpreted as a separate variable.
- **known\_x's**: The set of known x values ??in the relationship  $y = b * m ^ x$  , is a required parameter.
- + **known\_x's** may include 1 or more sets of variables.
- + If **known\_x's** is omitted -> it is assumed to be an array of the same size as **known\_y's**
- **new\_x's**: Are the new x values ??that you want the function to return the values ??corresponding to the values ??of y.
- + **new\_x's** must include a column (row) for each independent variable.
- + If **new\_x's** is omitted -> it is assumed to be the same as **known\_x's**.
- + If **known\_x's** and **new\_x's** are omitted -> it is assumed to be the same as **known\_y's** size .

- **const**: The logical value determining the value of the constant b, is an optional value including the following values:

+ **const = True** or ignore -> **b** is calculated normally.

+ **const = False** or ignore -> **b = 1** and m are adjusted such that:  $y = m \wedge x$ .

**Attention:**

- The value of the returned formulas has the array formula type -> the function must be entered as an array formula.

- If **known\_y's ? 0** -> the function returns the **#NUM!** Error value

- When entering values ??for an argument with the following convention:

+ Use commas to separate values ??in the same row.

+ Use semicolons separating between rows together.

**For example:**

Revenue estimates for June, July and August are based on previous months as described in the following data table:

STT	Tháng	Doanh thu
1	1	236
2	2	321
3	3	126
4	4	646
5	5	892
6	6	
7	7	
8	8	

- In the cell to calculate enter the formula : = **TREND (D6: D10, C6: C10)**

Hàm TREND trong Excel			
<i>Nhóm hàm thống kê</i>			
STT	Tháng	Doanh thu	
1	1	236	
2	2	321	
3	3	126	
4	4	646	
5	5	892	
6	6		=TREND(D6:D10,C6:C10)
7	7		
8	8		

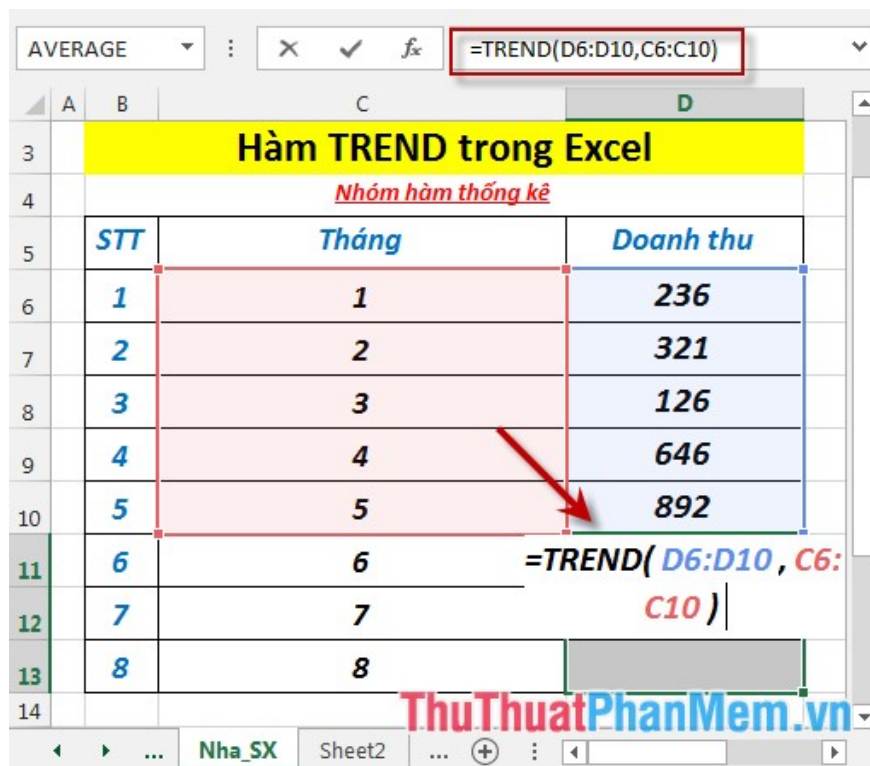
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- Press **Enter** -> return value is:

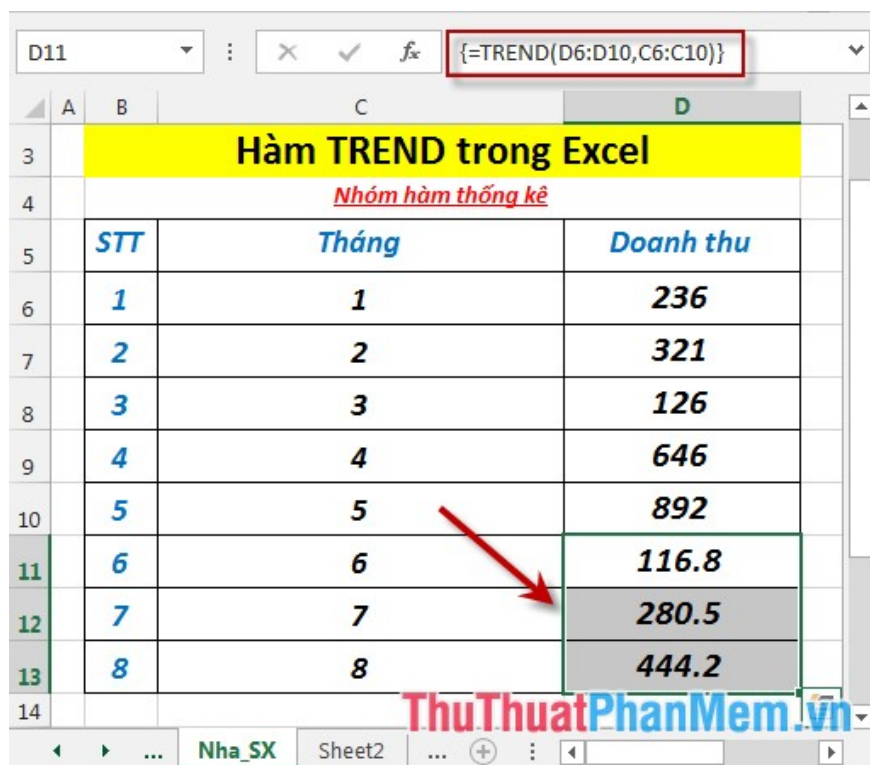
Hàm TREND trong Excel			
<i>Nhóm hàm thống kê</i>			
STT	Tháng	Doanh thu	
1	1	236	
2	2	321	
3	3	126	
4	4	646	
5	5	892	
6	6	116.8	
7	7		
8	8		

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- Highlight the sales areas in June, July and August (D11: D13 areas) -> press **F2**:



- Press the key combination **Ctrl + Shift + Enter** -> estimated revenue for June, July and August is:



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

Good luck!

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