

How do I find the slope of a trendline in Excel?

Authored by
stats writer

April 28, 2024

RECOMMENDED CITATION

stats writer (2024). *How do I find the slope of a trendline in Excel?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=140485>

Finding the slope of a trendline in Excel is a simple process that can be accomplished using the built-in "Trendline" feature. First, select the data points that you want to plot on a graph. Then, click on the "Insert" tab and select "Scatter" from the "Charts" section. Next, right-click on any one of the data points and choose "Add Trendline" from the menu. A trendline will appear on the graph, and its slope can be found by right-clicking on the trendline and selecting "Format Trendline." In the "Format Trendline" menu, click on the "Options" tab and select "Display Equation on Chart." The slope of the trendline will be displayed on the graph, allowing you to easily calculate and analyze the relationship between your data points.

Find the Slope of a Trendline in Excel

Often you may want to find the slope of a trendline in Excel.

Fortunately this is fairly easy to do and the following step-by-step example shows how to do so.

Step 1: Create the Data

First, let's create a fake dataset to work with:

	A	B	C	D	E	F
1	x	y				
2	2	4				
3	3	7				
4	4	9				
5	5	9				
6	6	12				
7	8	19				
8	9	20				
9	9	22				
10	11	26				
11	14	33				
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

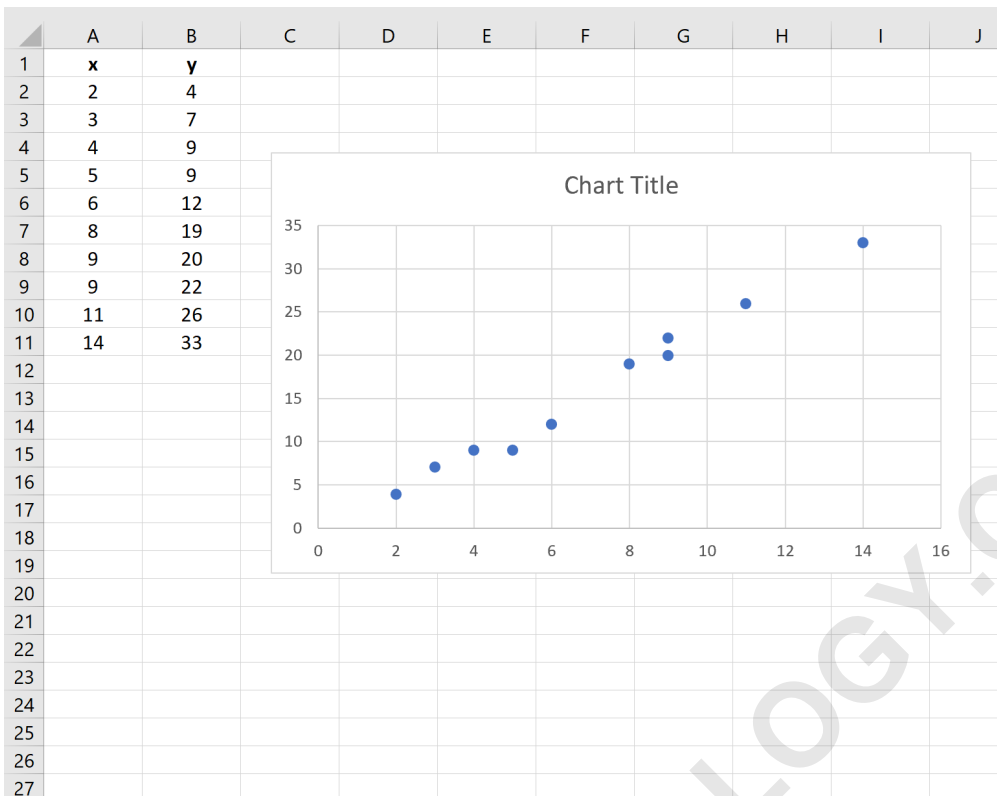
Step 2: Create a Scatterplot

Next, let's create a scatterplot to visualize the data.

To do so, highlight the data:

	A	B	C	D	E	F	G
1	x	y					
2	2	4					
3	3	7					
4	4	9					
5	5	9					
6	6	12					
7	8	19					
8	9	20					
9	9	22					
10	11	26					
11	14	33					
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

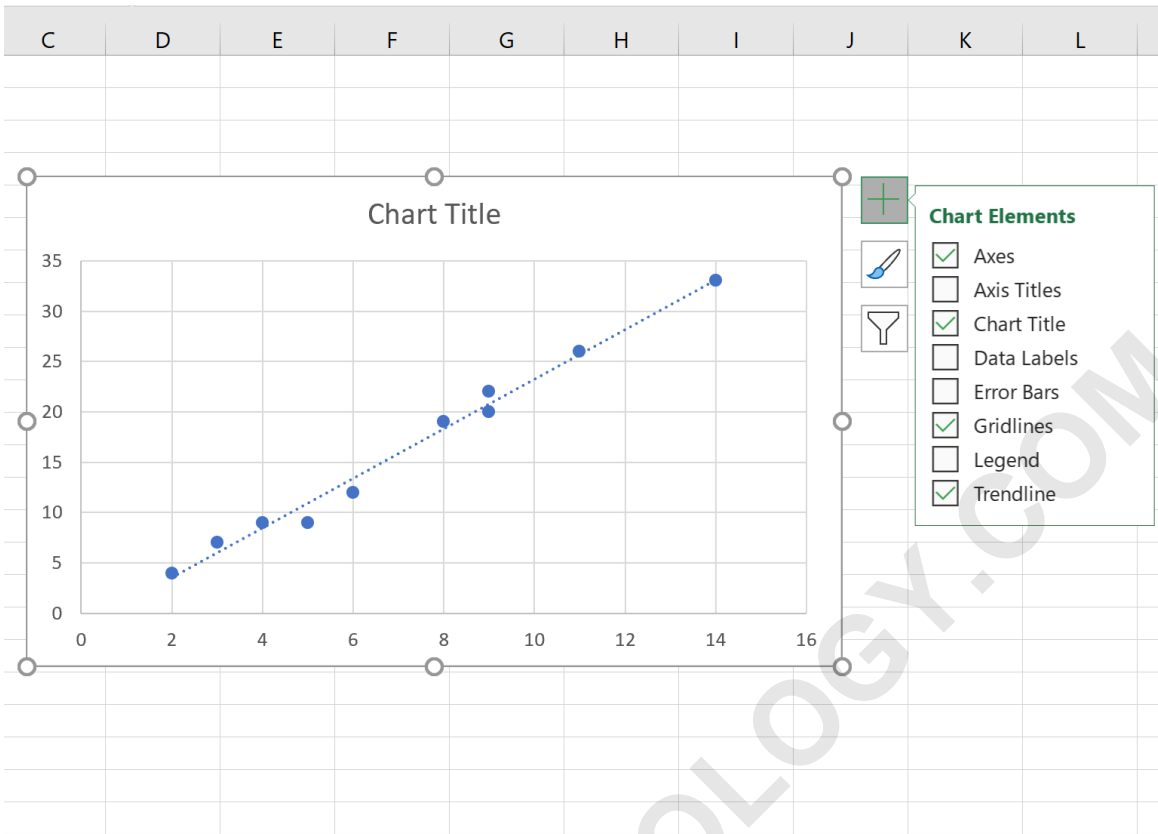
Then click the Insert tab along the top ribbon and click the first option within the Insert Scatter (X, Y) option in the Charts group. This will produce the following scatterplot:



Step 3: Add a Trendline

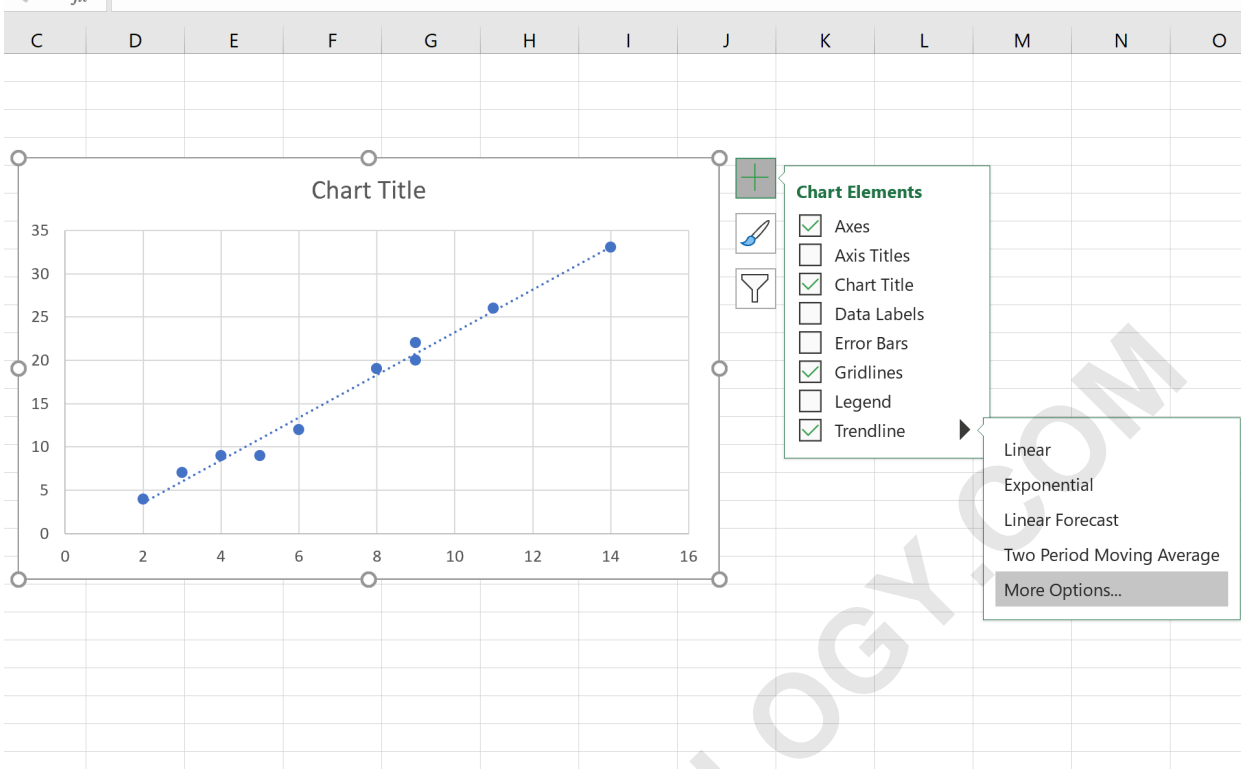
Next, let's add a trendline to the scatterplot.

To do so, click anywhere on the scatterplot. Then click the green plus (+) sign in the top right corner of the chart and click the box next to Trendline:

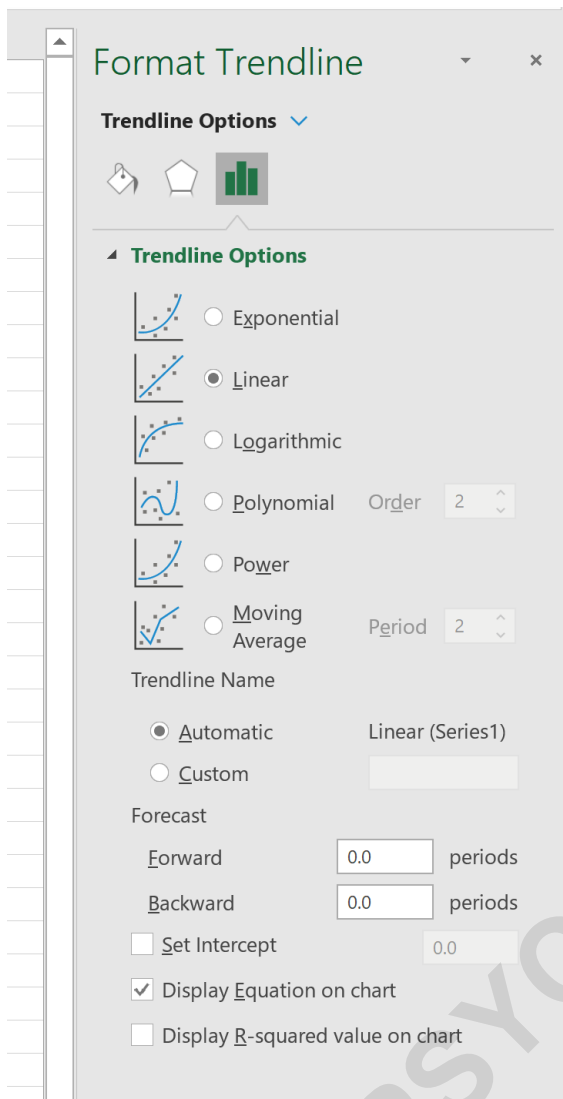


Step 4: Display the Slope of the Trendline

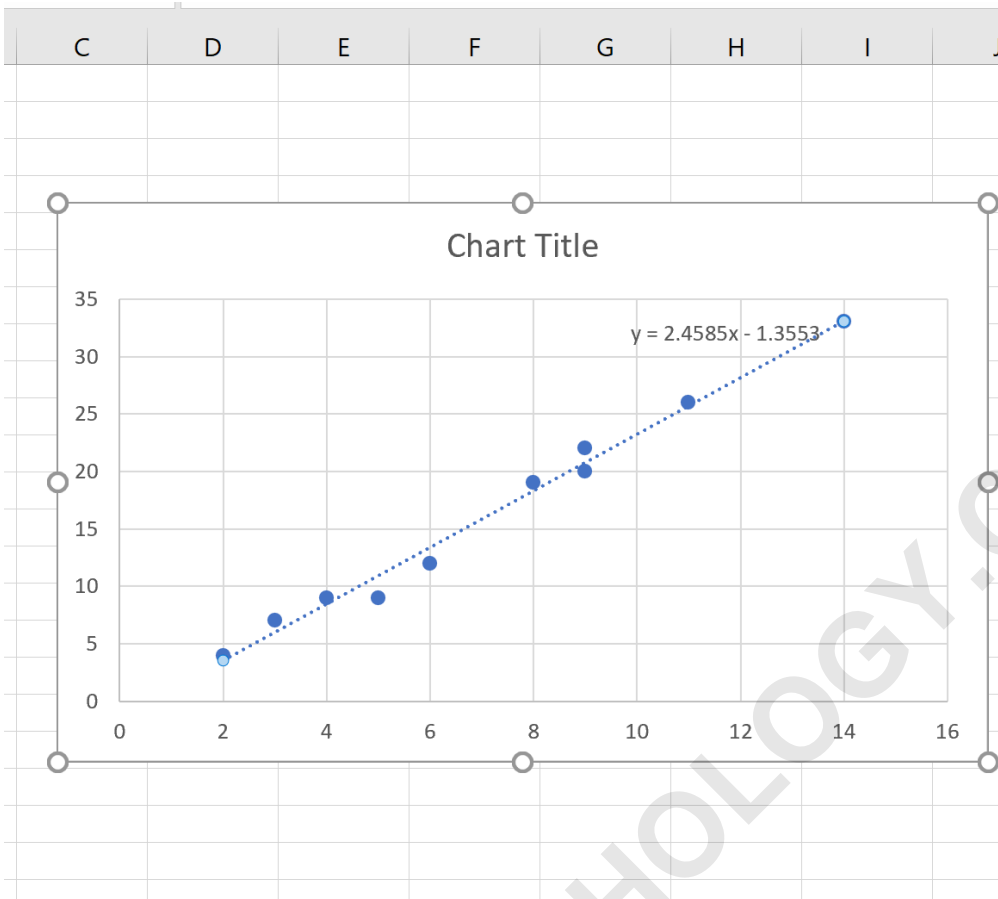
To find the slope of the trendline, click the right arrow next to Trendline and click More Options:



In the window that appears on the right side of the screen, check the box next to Display Equation on chart:



The trendline equation will automatically appear on the scatterplot:



The trendline equation turns out to be $y = 2.4585x - 1.3553$.

This means the intercept is -1.3553 and the slope is 2.4585.

You can find more Excel tutorials on .