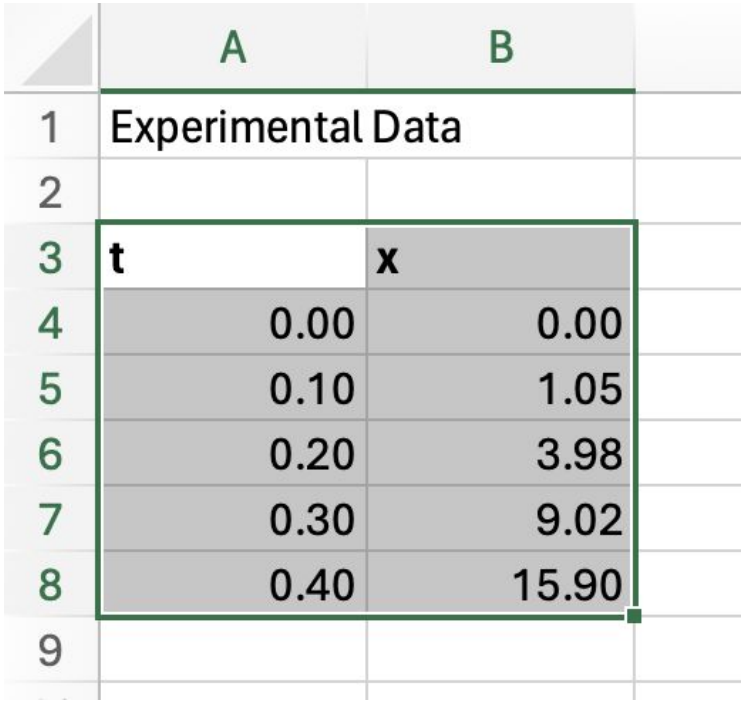
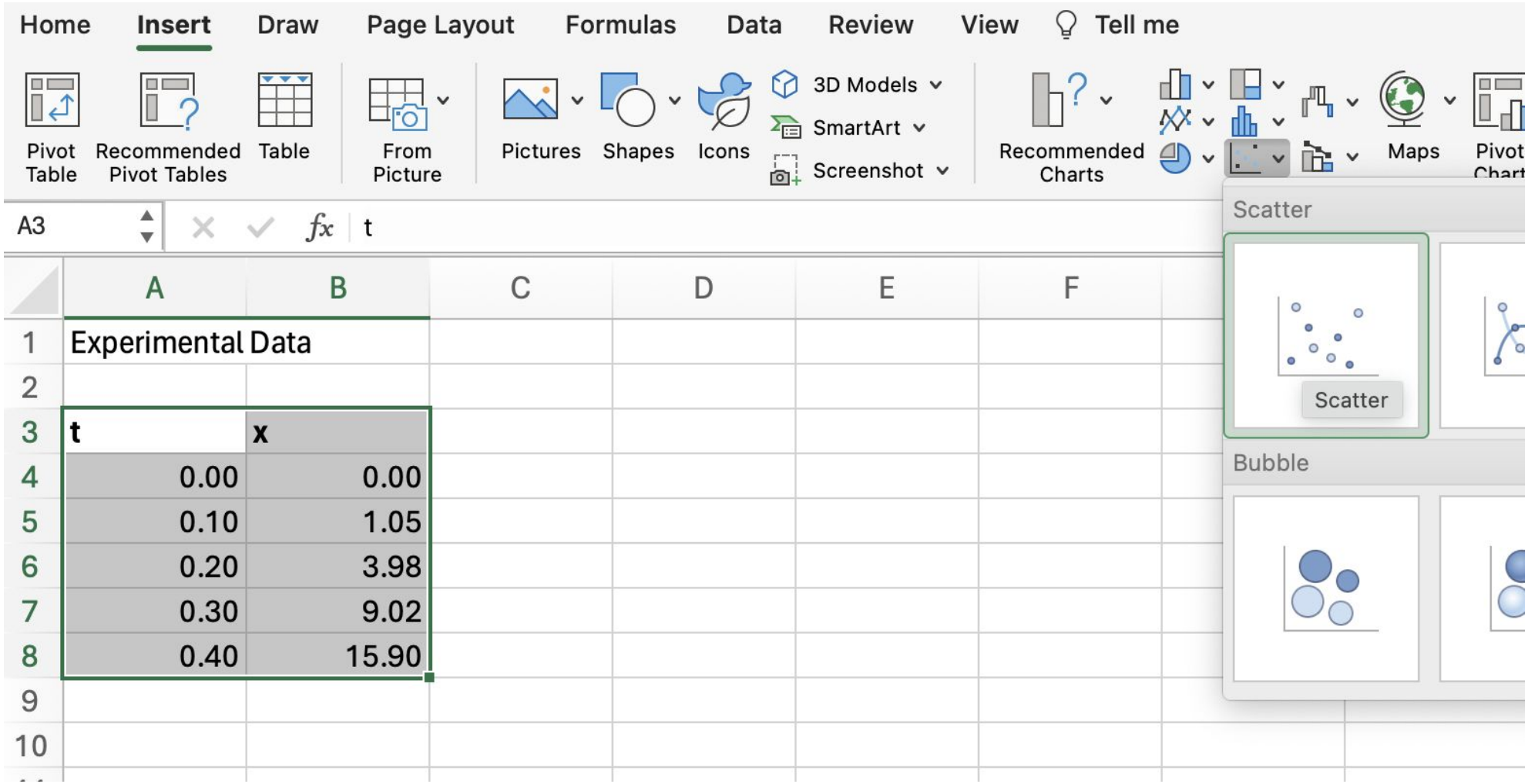
Enter your data in Excel and then select this range as shown

	A	B	C	D
1	Experimental Data			
2				
3	t	x		
4	0.00	0.00		
5	0.10	1.05		
6	0.20	3.98		
7	0.30	9.02		
8	0.40	15.90		
9				
10				

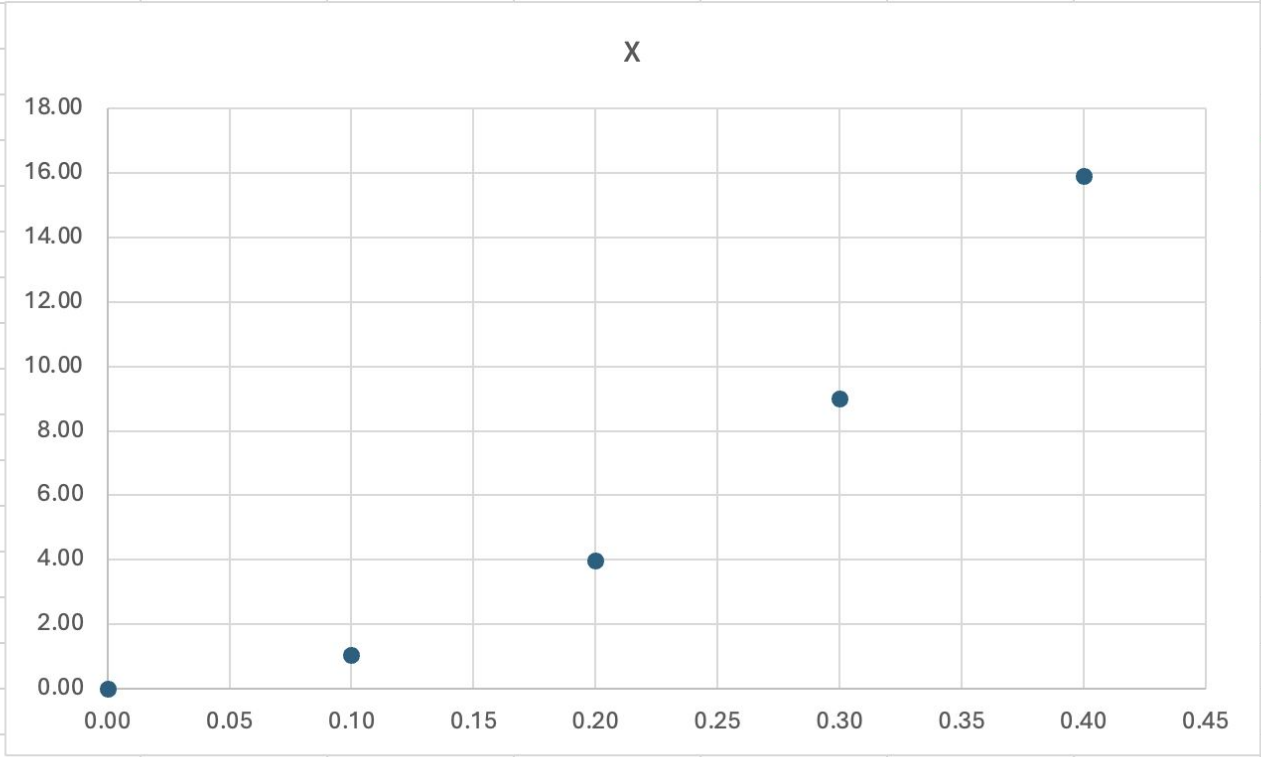


Insert a scatter plot

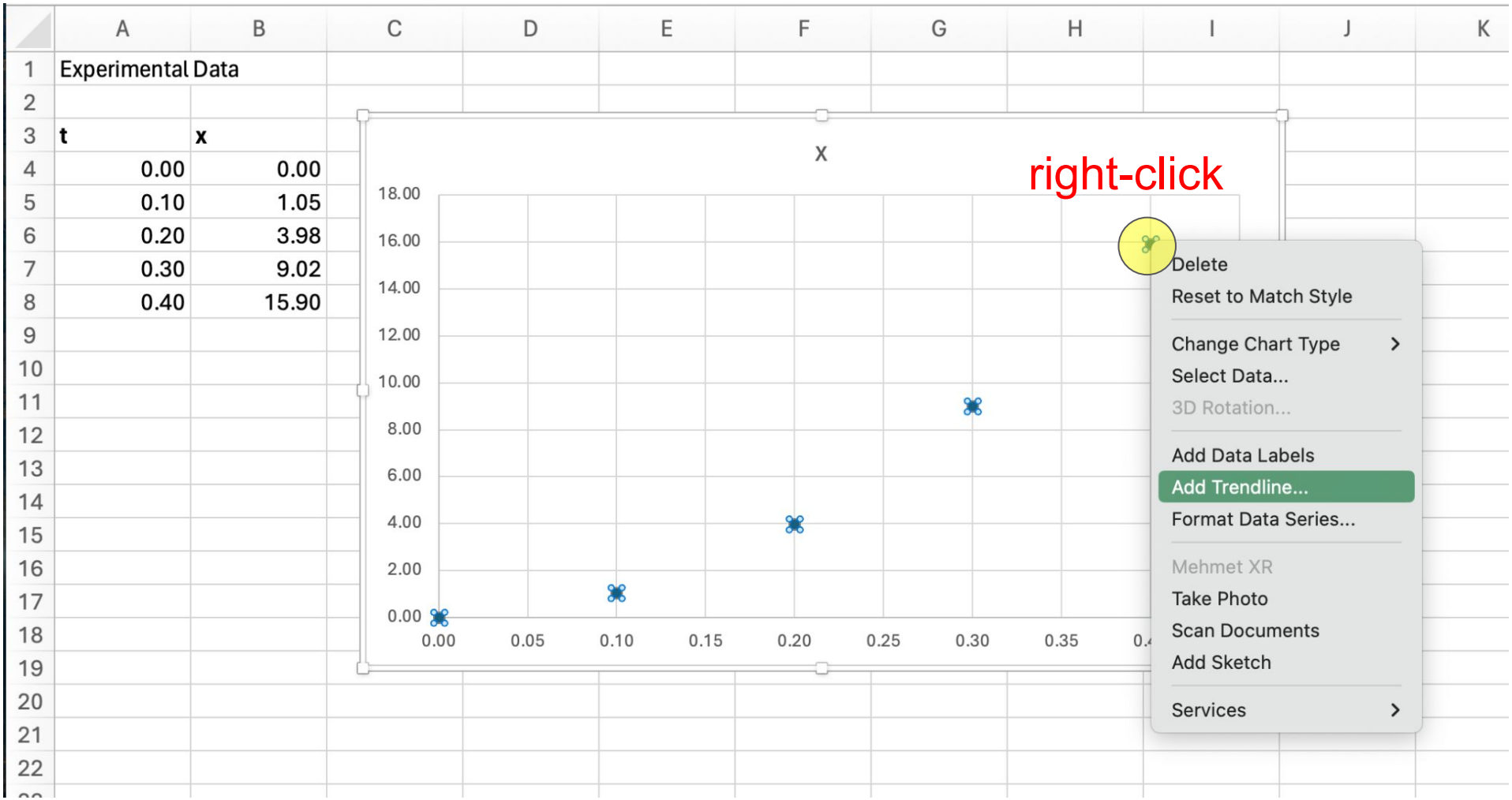


You should get something like this

	A	B	C	D	E	F	G	H	I
1	Experimental Data								
2									
3	**t**	**x**							
4	0.00	0.00							
5	0.10	1.05							
6	0.20	3.98							
7	0.30	9.02							
8	0.40	15.90							
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									



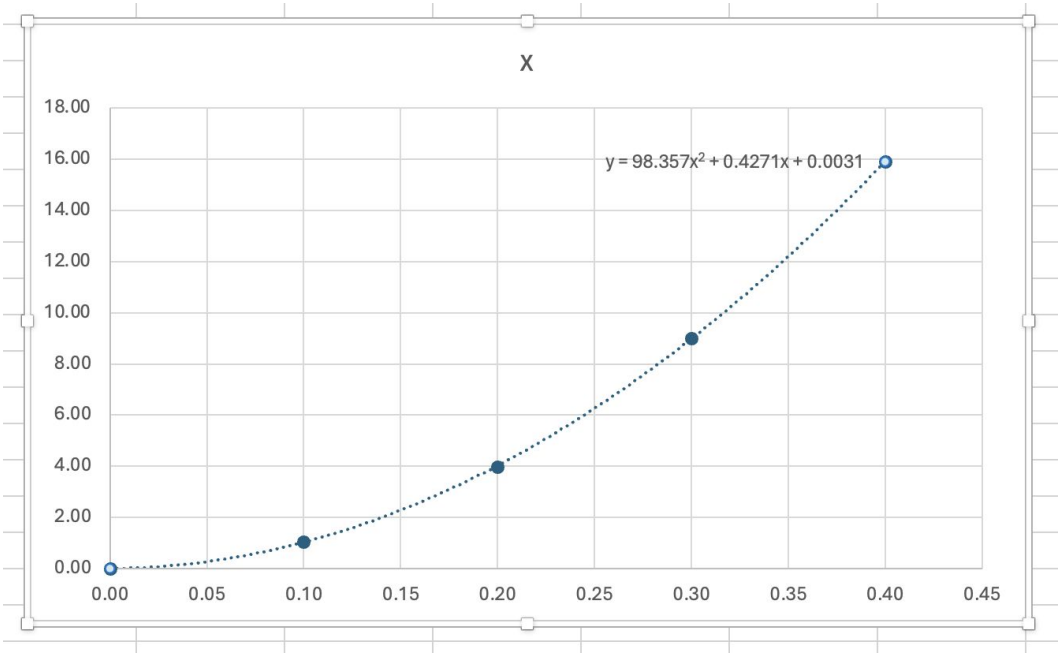
Right click one of the data points and click on **Add Trendline**

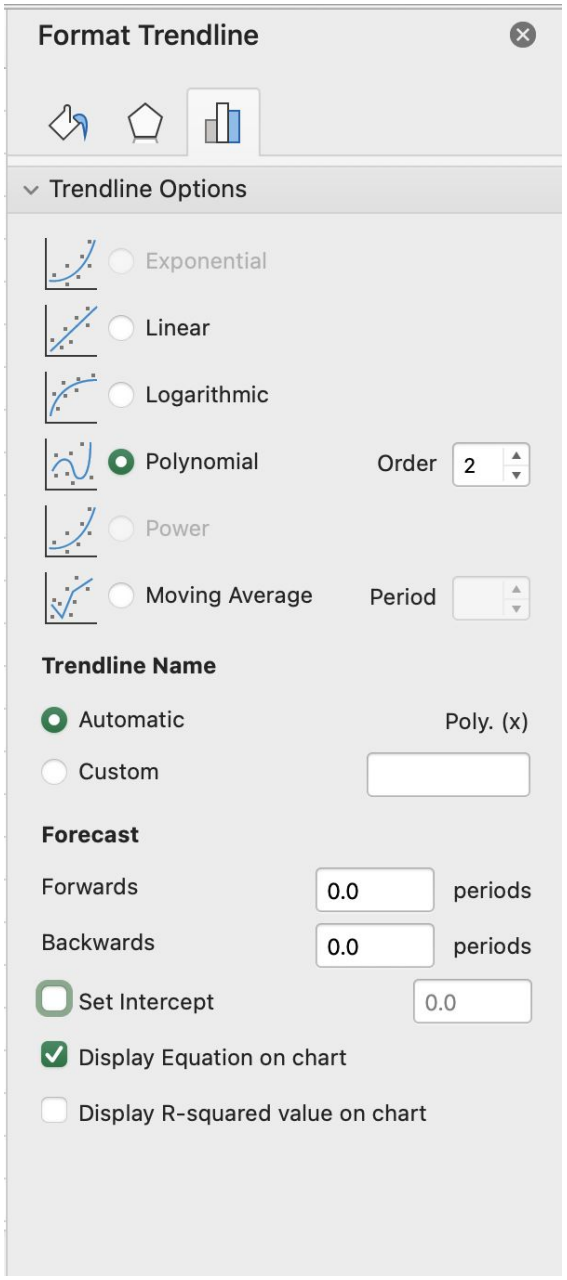


Format the trendline as shown on the right

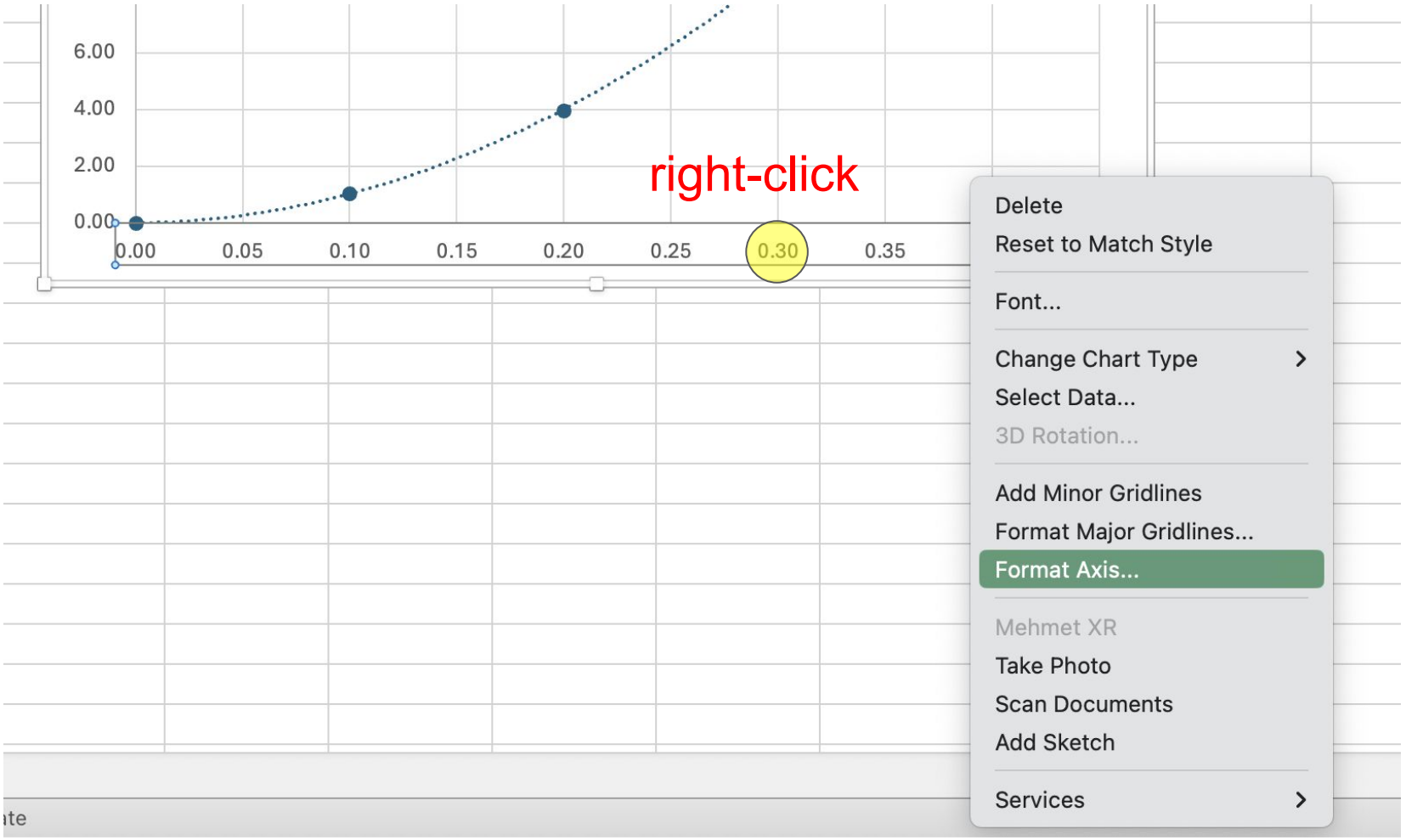
- Polynomial 2
- Show equation

It should now look like this



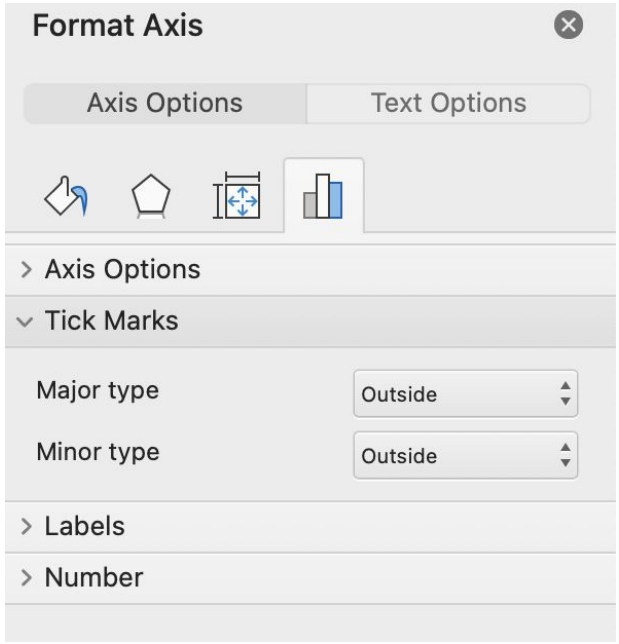


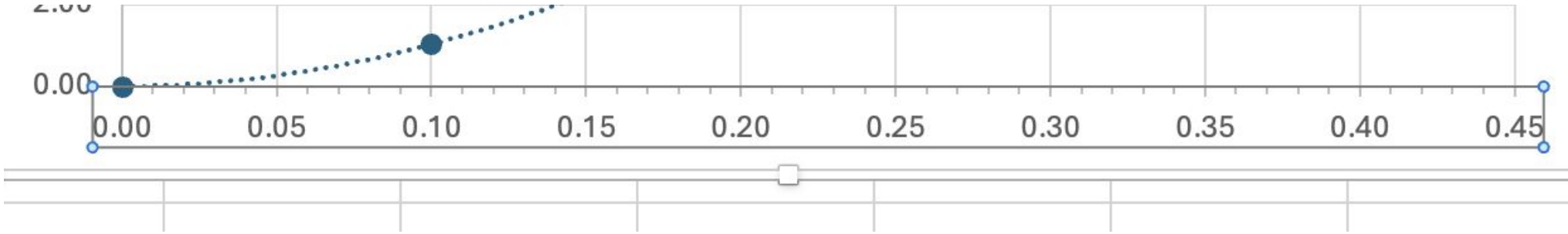
Right click on the time axis and select **Format Axis**



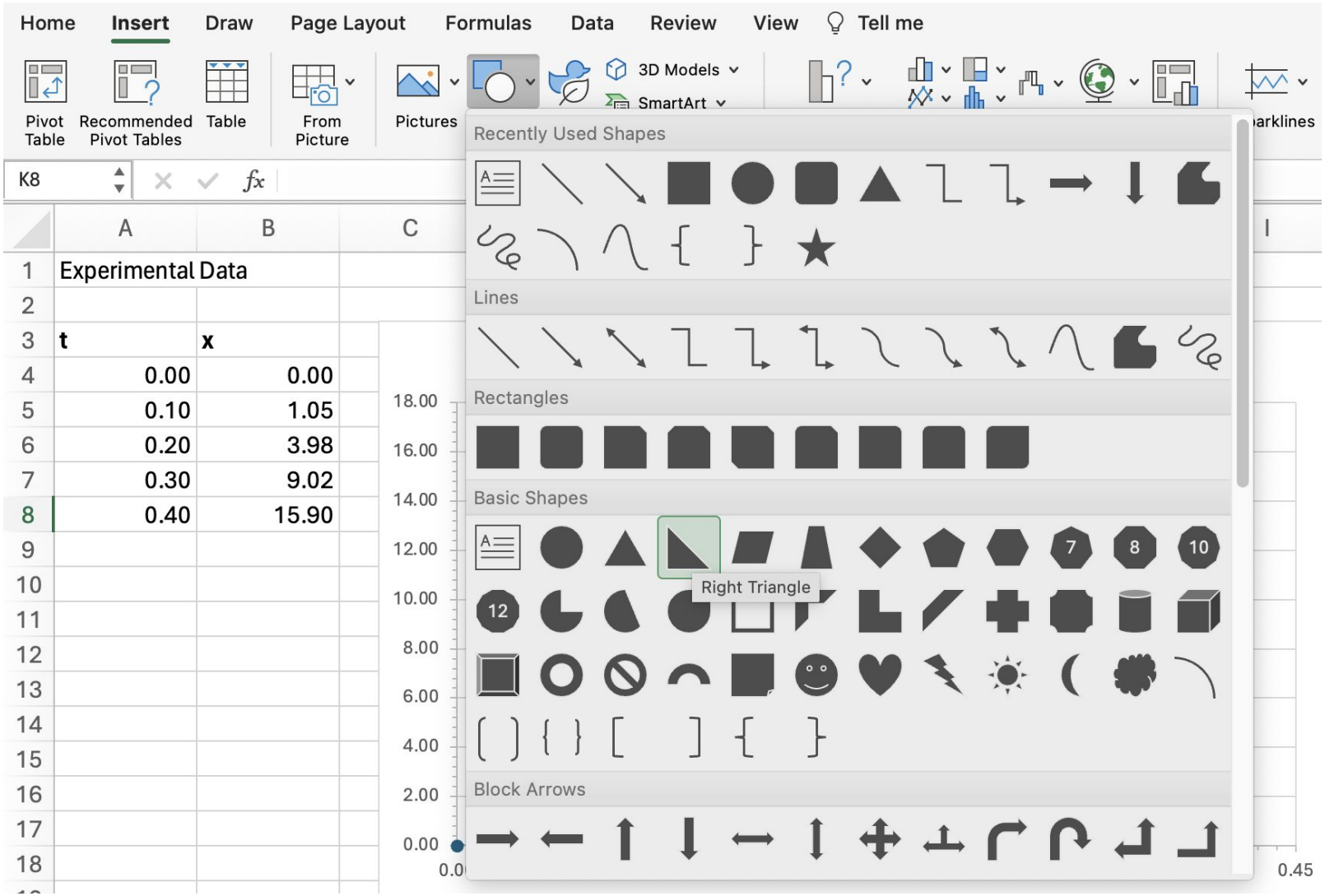
In the **Format Axis** dialog, select Tick Marks for both minor and major tick marks to be outside and you should Get the Tick Marks as shown

Do the same for the x values (vertical axis)



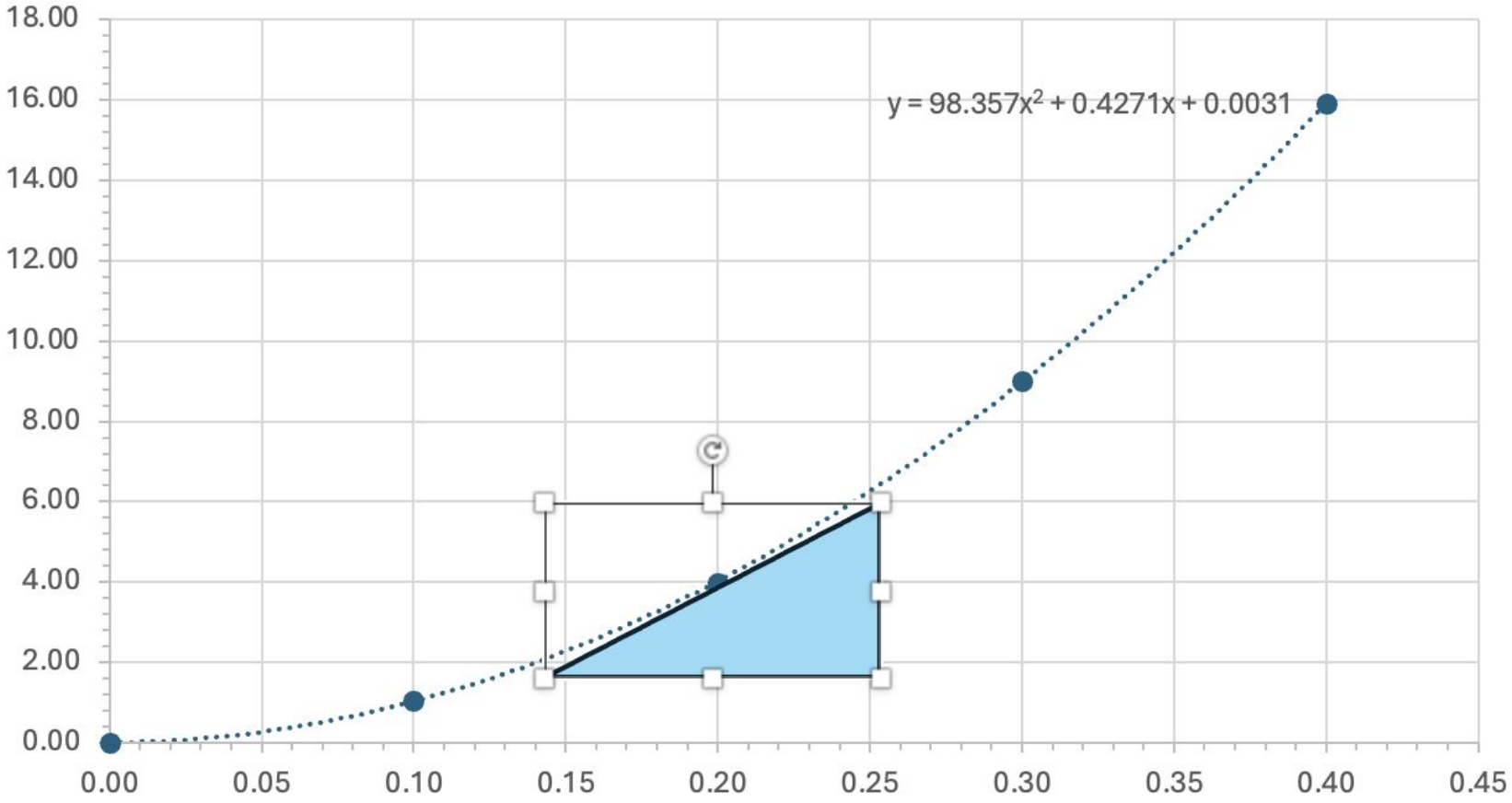
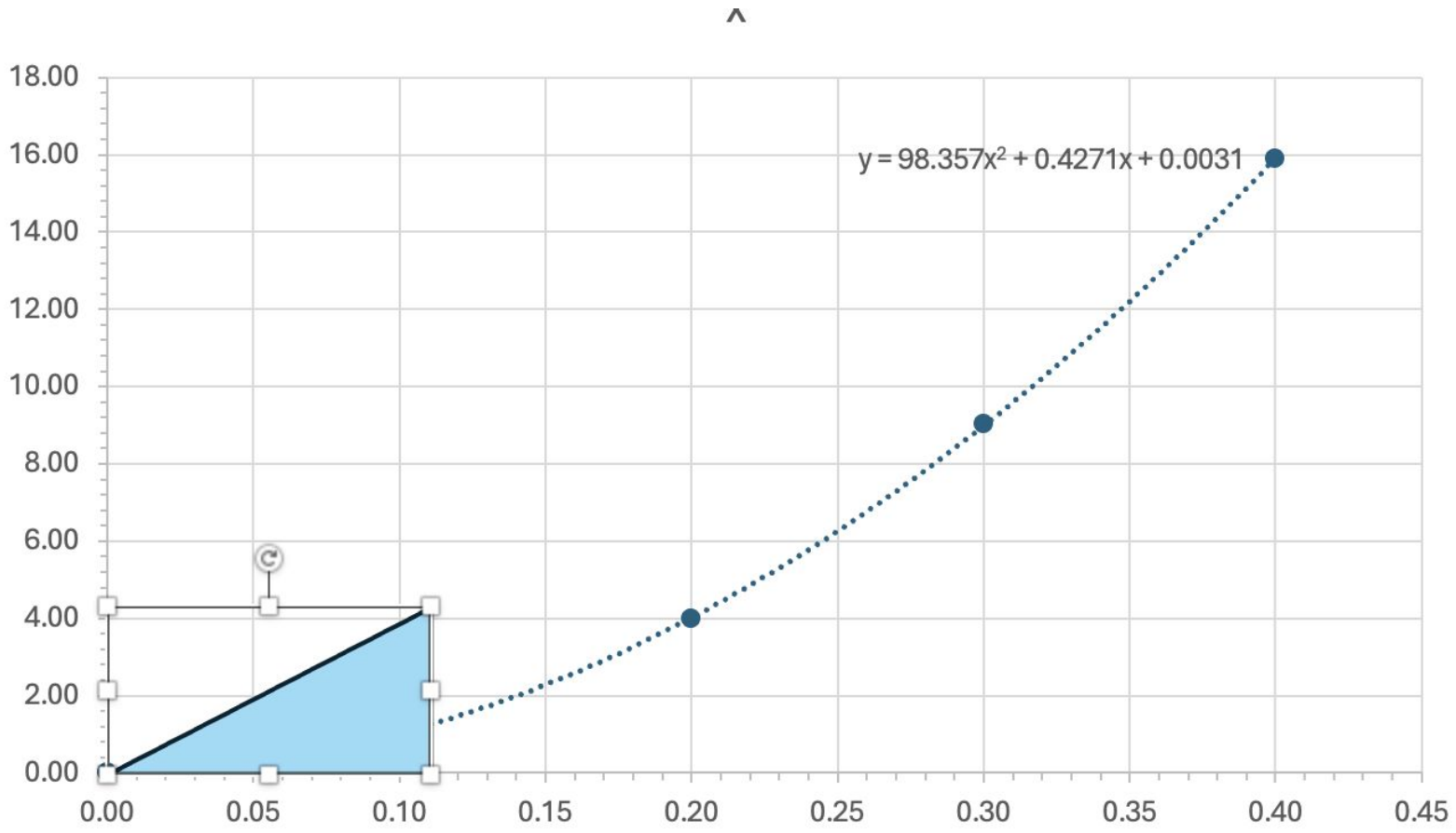


To read the tangent line insert a **triangle** shape and put it in as tangent



You should have something like shown. You can adjust the position, and the sides of the triangle until you are happy that it's a tangent and It's large enough to be able to be measured.

Makes sure the triangle is as large as it can be



Now move the triangle to the origin. You can read off the t-values and x-values corresponding to the base and height of the triangle. The ratio will be your slope, i.e. tangent. And it will be in the right units.