WESTERN SYDNEY
UNIVERSITY

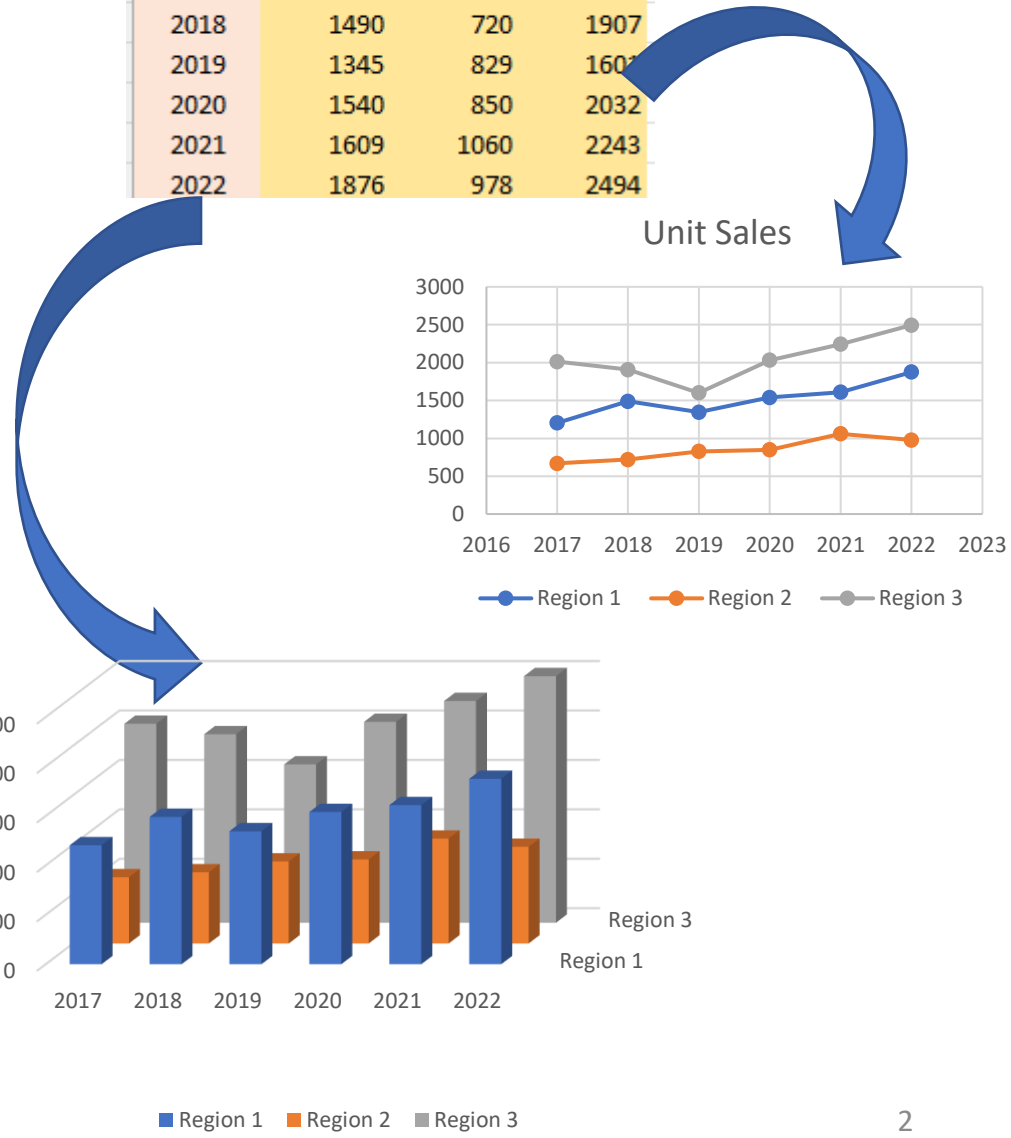
Graphing

ELEC1006 ENGINEERING COMPUTING

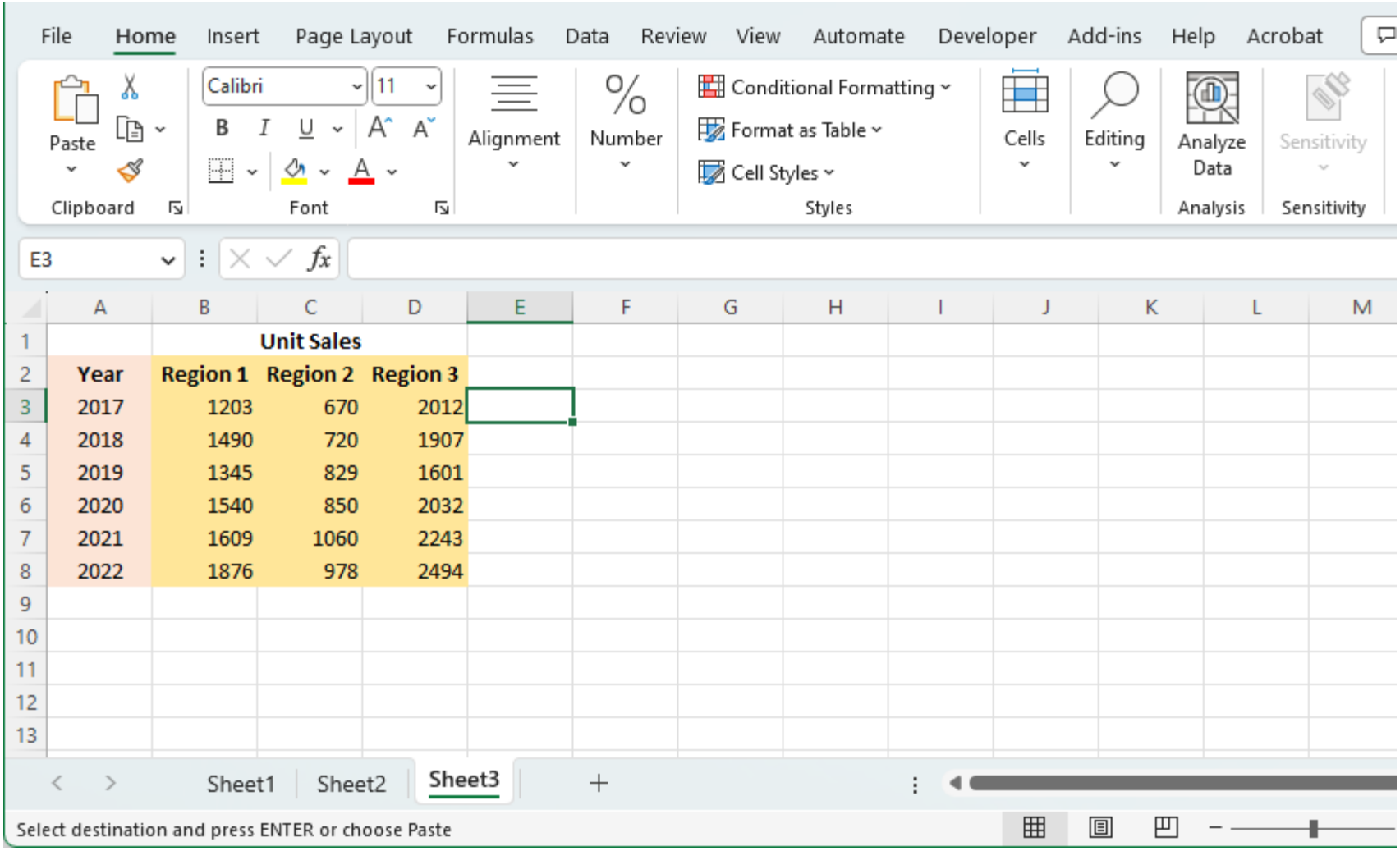
Graphing in Excel

- Number of plot types (line, scatter plots, bar/pie charts, etc.)
- Trendlines
- Good built-in help and many online resources

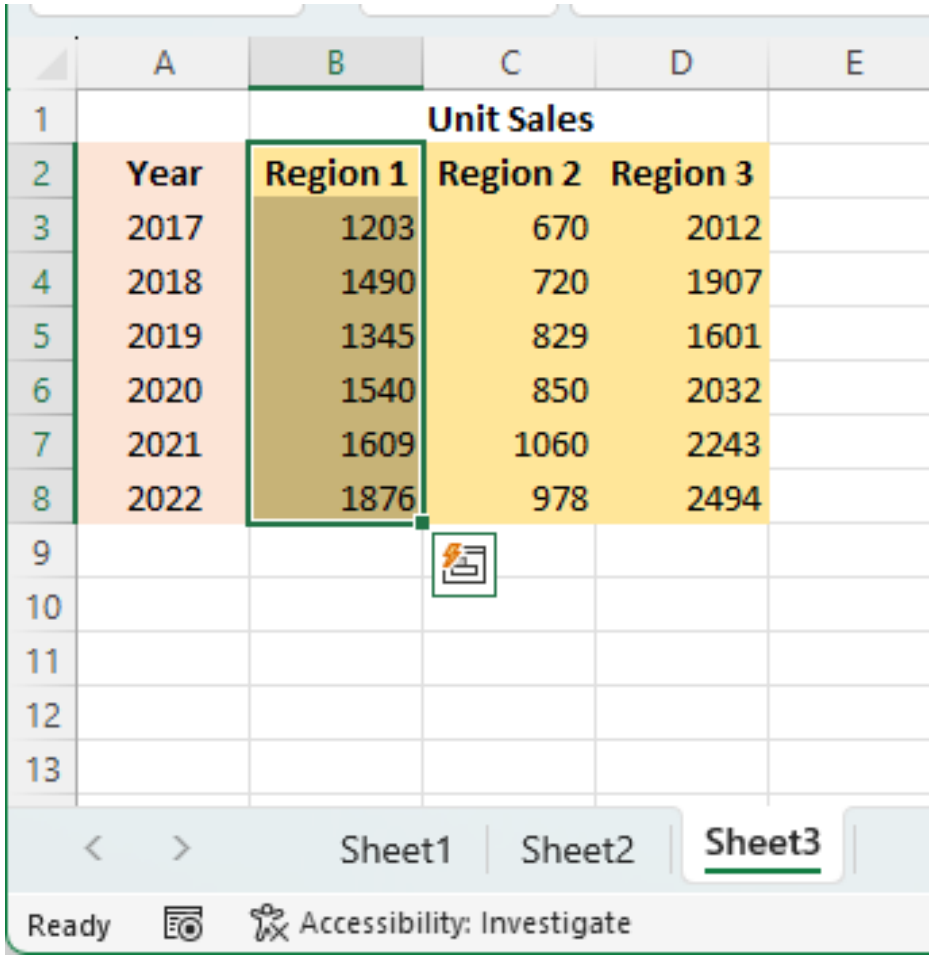
	Unit Sales		
Year	Region 1	Region 2	Region 3
2017	1203	670	2012
2018	1490	720	1907
2019	1345	829	1607
2020	1540	850	2032
2021	1609	1060	2243
2022	1876	978	2494



Example - Step 1: Prepare Data



Step 2: Select Data

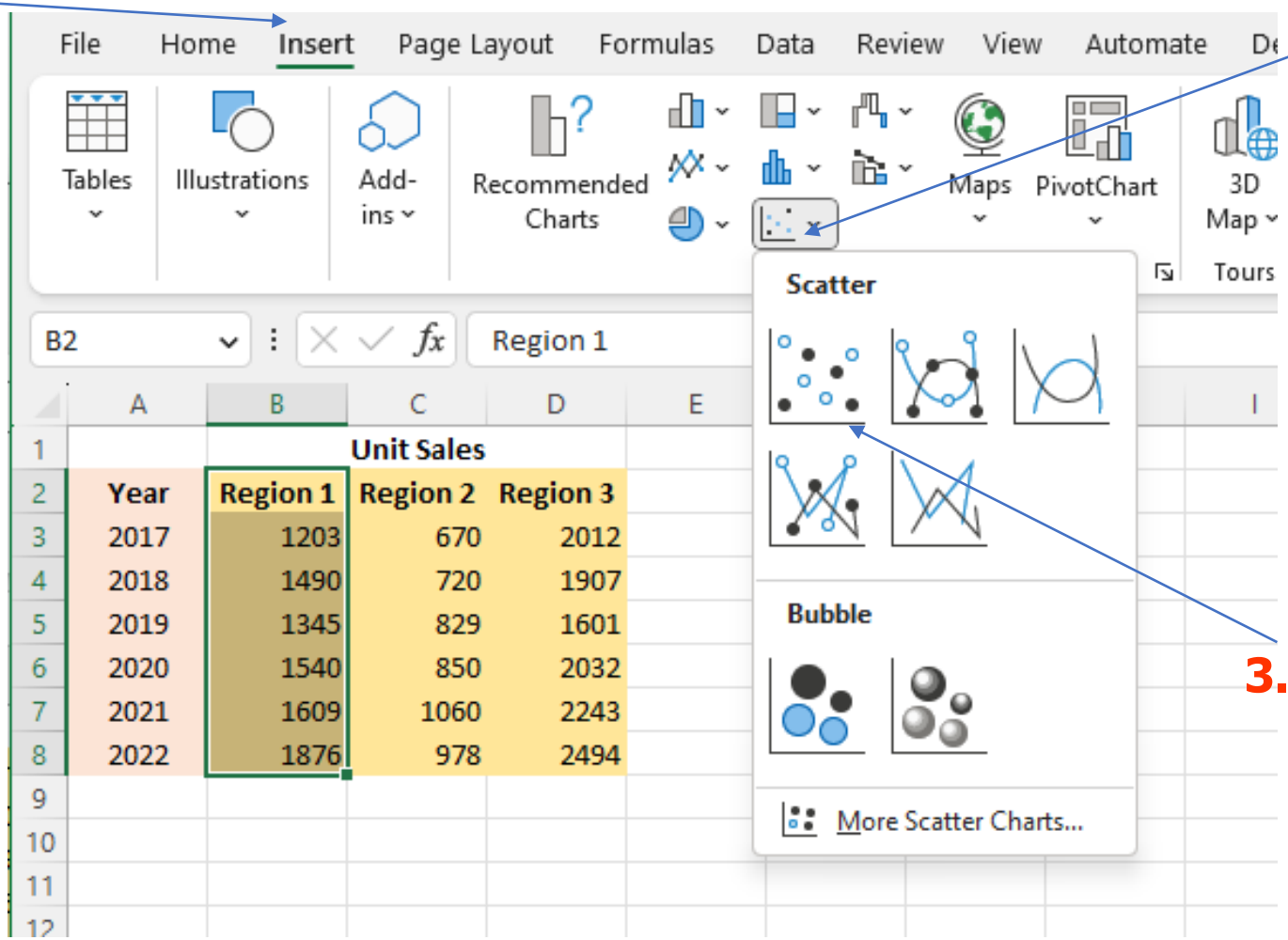


	A	B	C	D	E
1		Unit Sales			
2	Year	Region 1	Region 2	Region 3	
3	2017	1203	670	2012	
4	2018	1490	720	1907	
5	2019	1345	829	1601	
6	2020	1540	850	2032	
7	2021	1609	1060	2243	
8	2022	1876	978	2494	
9					
10					
11					
12					
13					

To select data, click with left mouse button (in windows), hold and drag across desired cells

Step 3: Choose a Graph Type

1. Select "Insert"



	A	B	C	D
1		Unit Sales		
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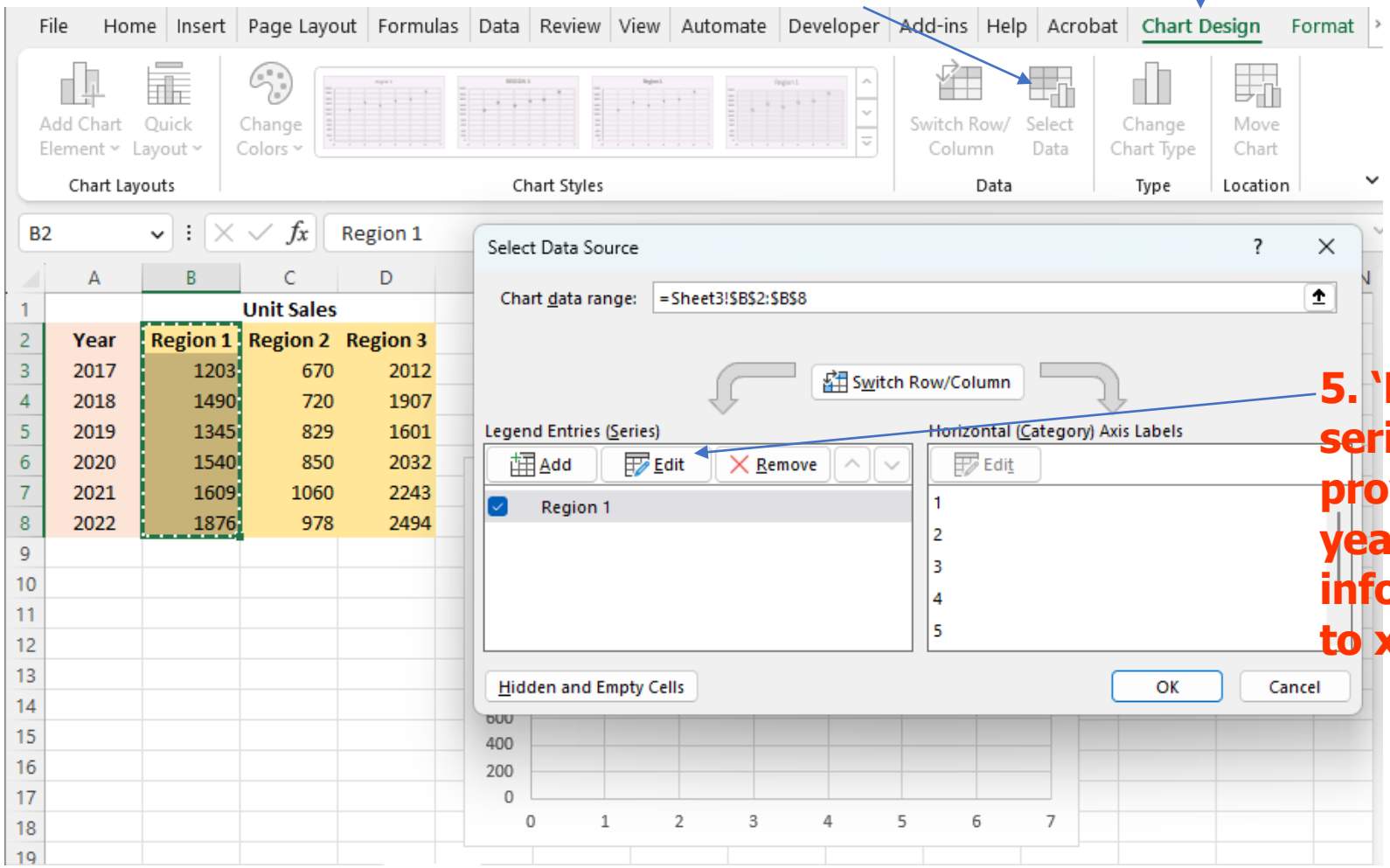
2. Choose chart type "XY Scatter"

3. Choose chart sub-type

Step 4: Edit the Series

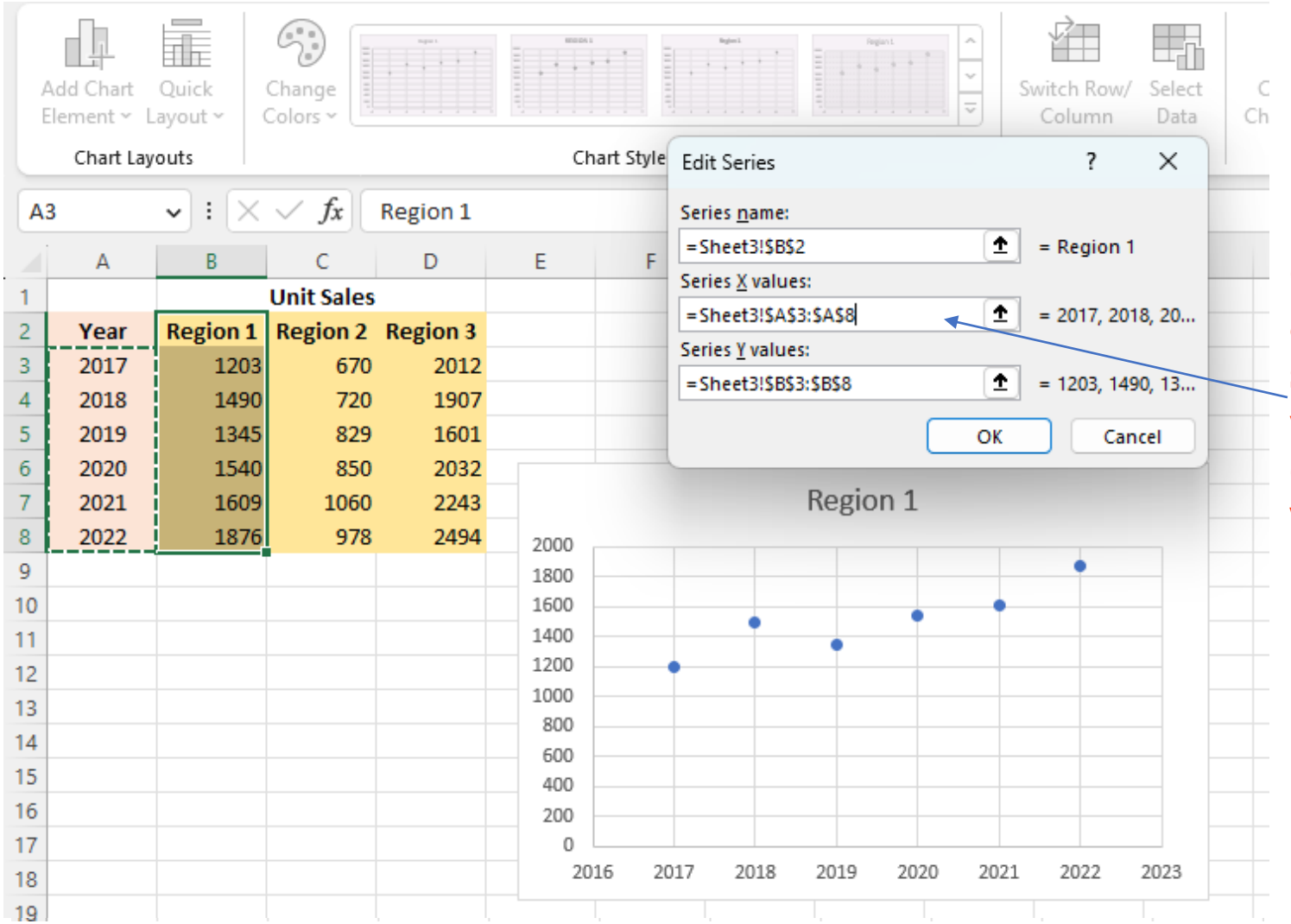
4. Click on Select Data

Select Chart Design (should be on this selection)



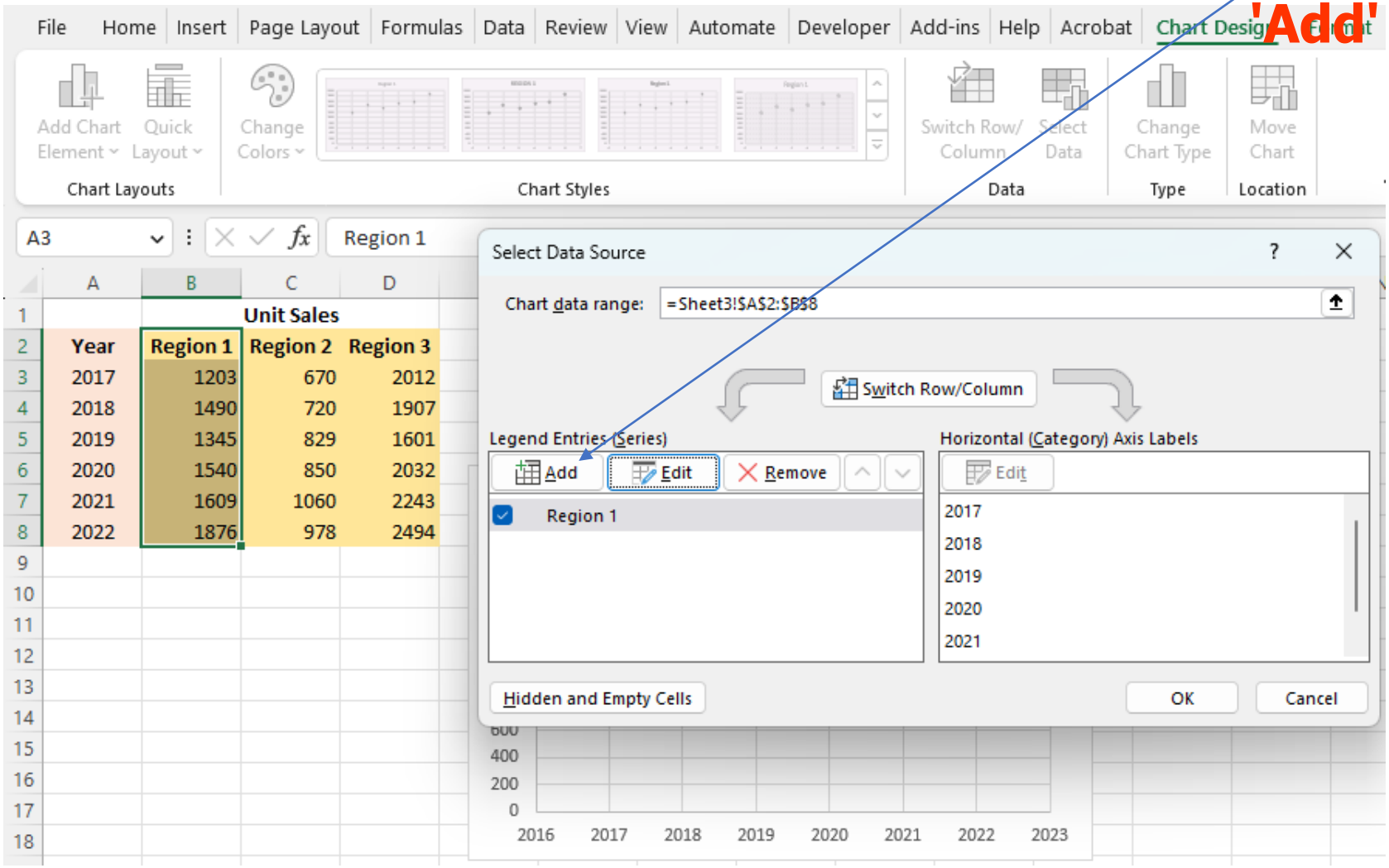
5. 'Edit' the series to provide year information to x-axis

Step 5: Set the x-Axis Range

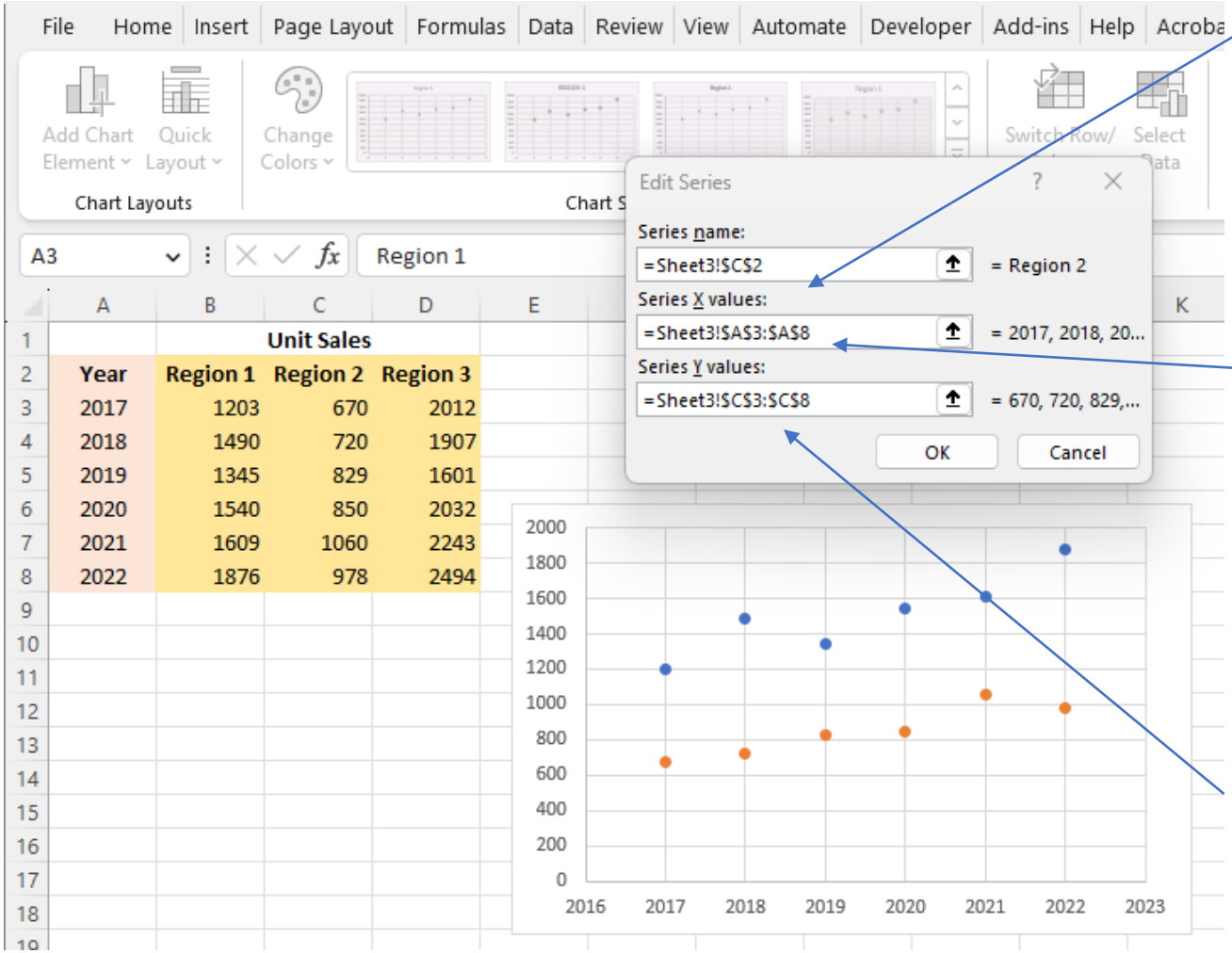


Click here and then select x- axis values (Year Column Values)

Step 6: Add Another Plot



Step 7: Put in New Series Information



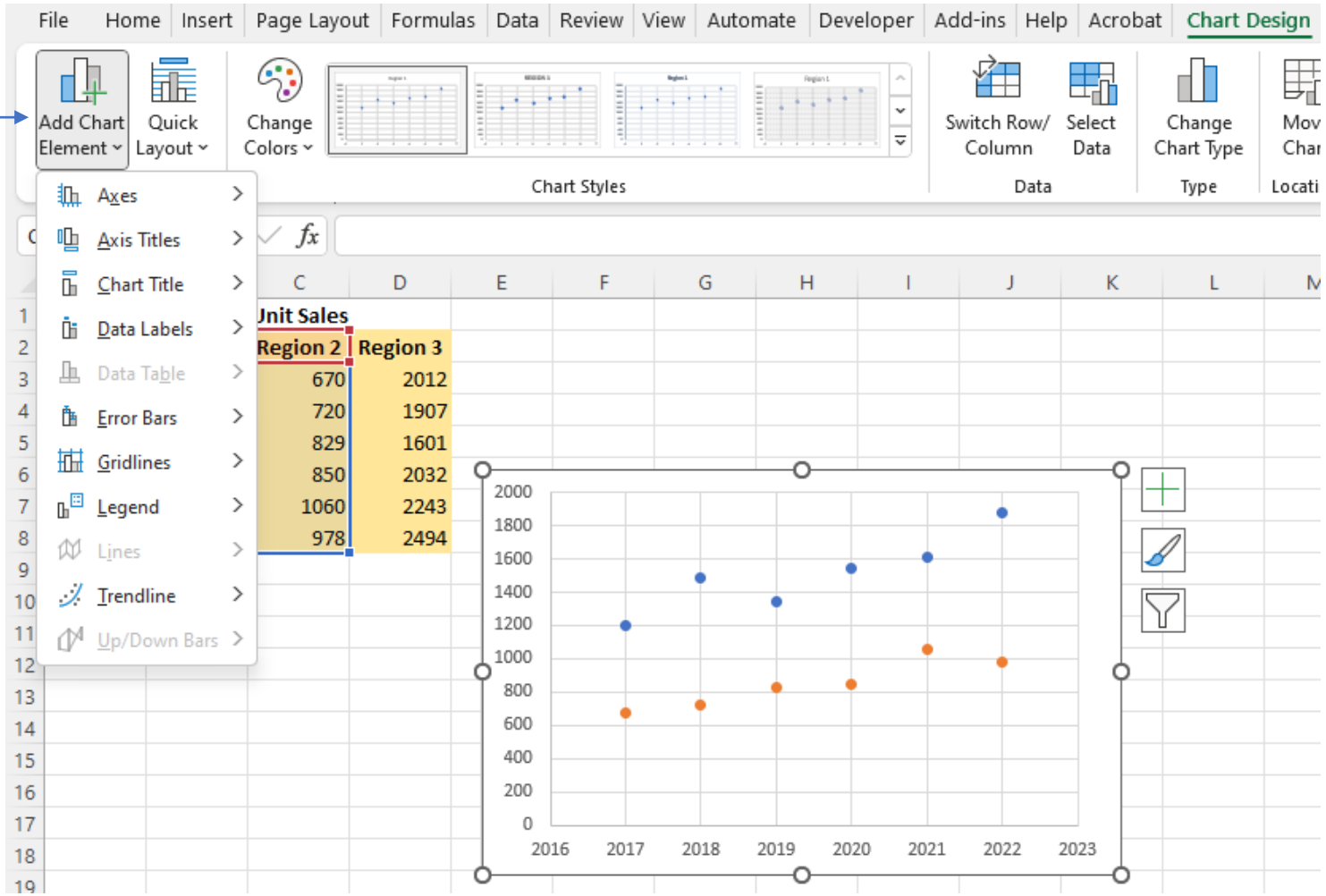
Set Series Name (Region 2)

Set X-Axis Values (Year values)

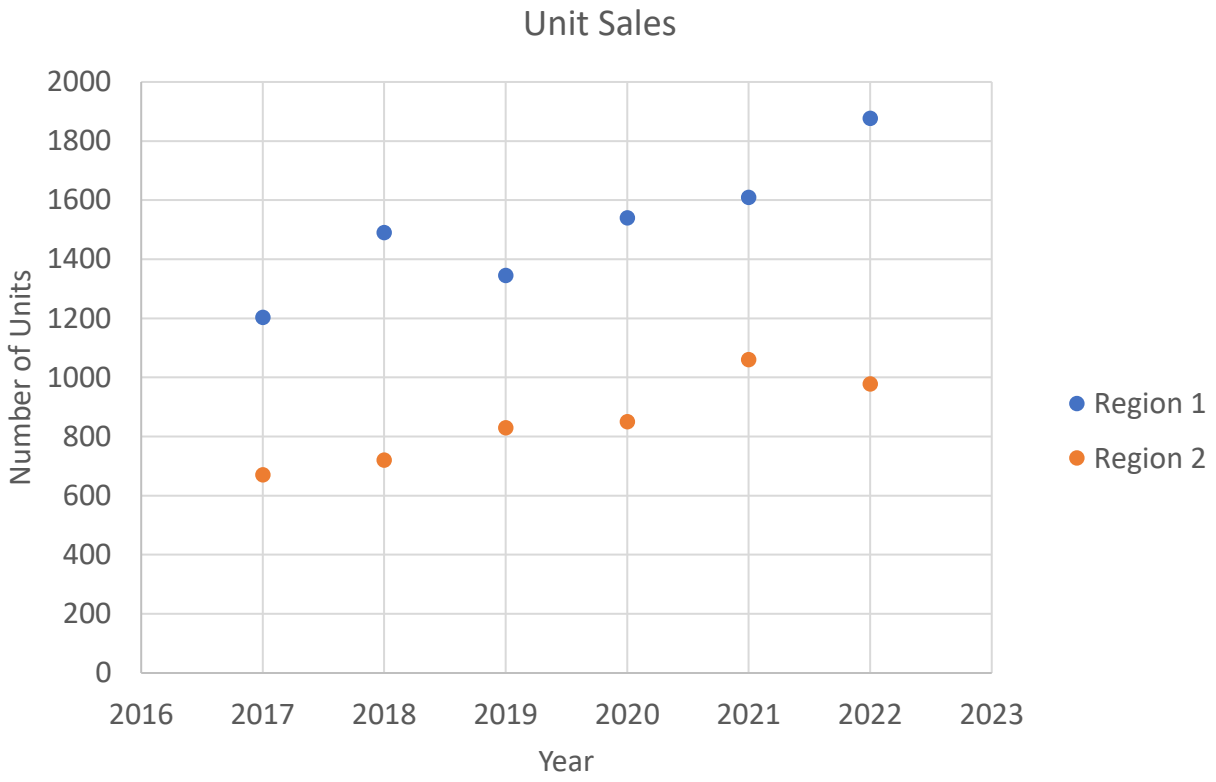
Set Y-Axis Values (Region 2 values)

Step 8: Format the Graph

Select "Add Chart Elements" to add Chart Title, Axis Title and Legend

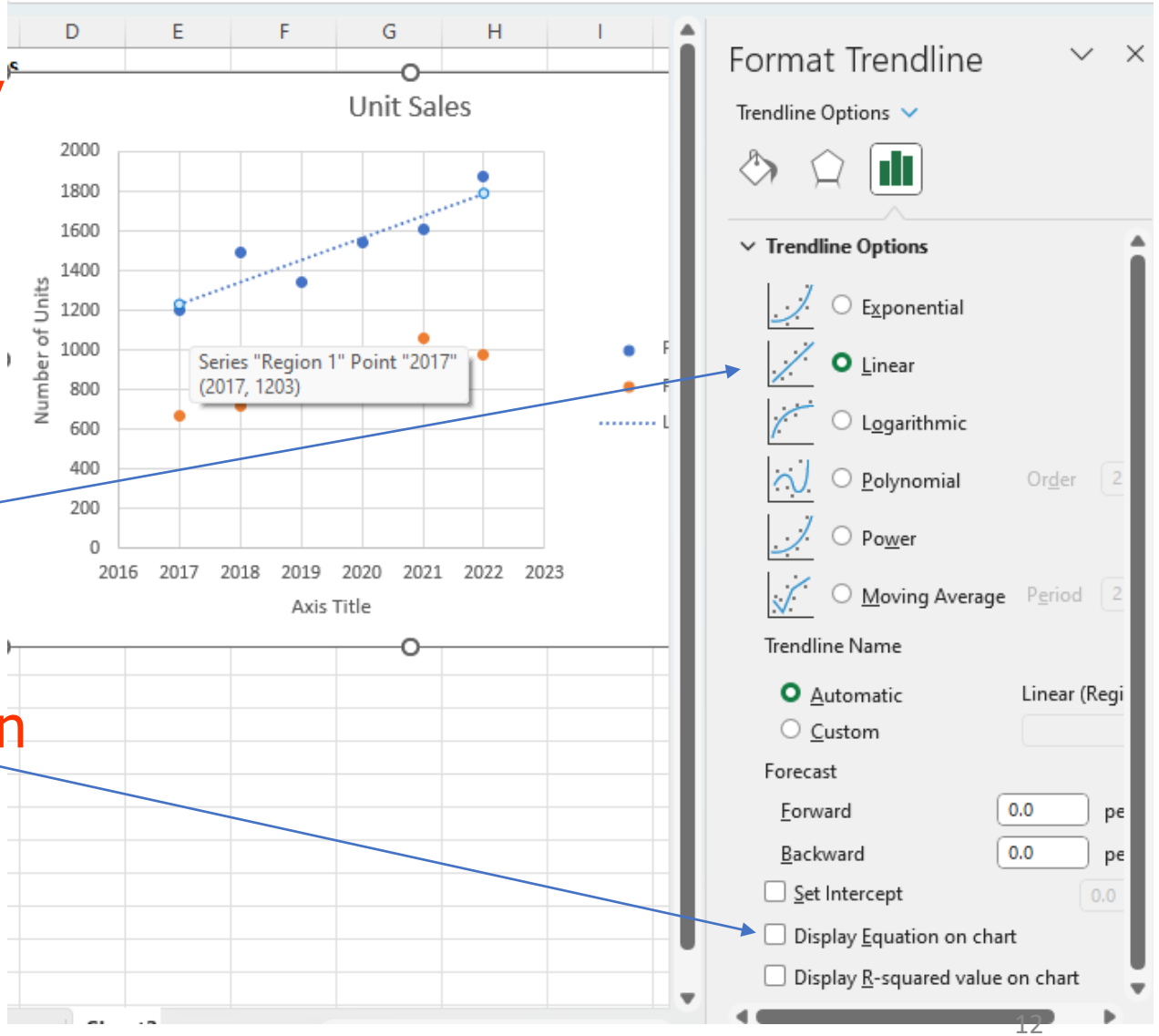


Example Graph Generated

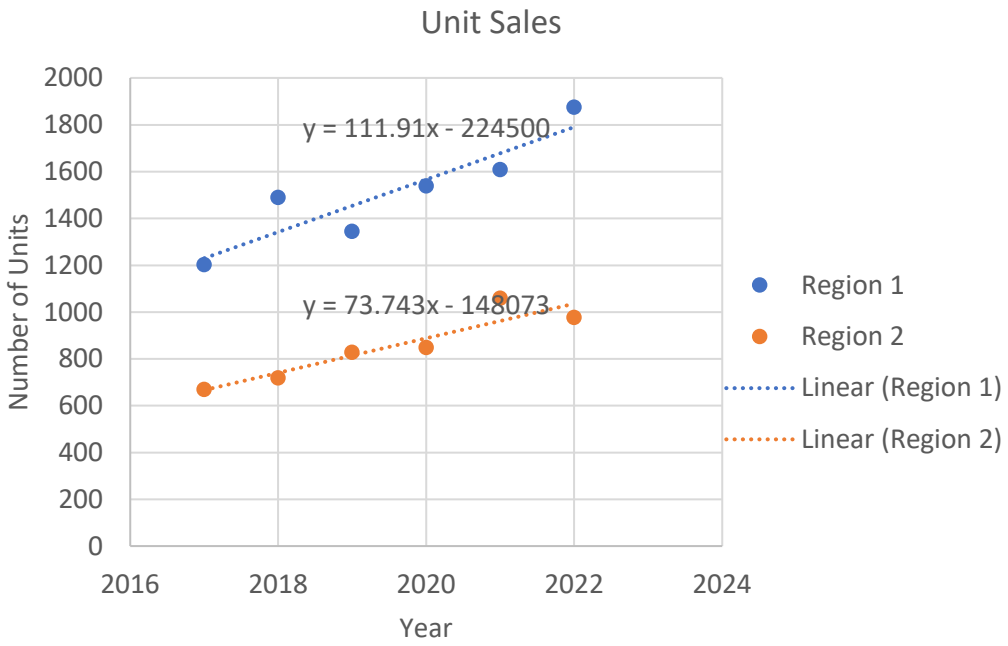


Add a Linear Trendline

- Right click on any data point and select the 'Add Trendline' option.
- Select Linear as the regression type (there are other options available)
- You can opt to show the equation of the line on the chart



Linear Trendlines in our Example



- How many units sales would we expect in 2025?
- We can predict that using the equations:
  - Region 1: 2097.5
  - Region 2: 1256.6
- Any issues with these predictions?

More info

- References
  - Excel online help
  - Number of good books on Excel: e.g. Larsen, R. W. (2021). *Engineering with Excel* (5th ed.). Boston: Pearson.
  - Numerous online resources
- Widely available, learn by using