



IN THE NAME OF ALLAH, MOST GRACIOUS,
MOST MERCIFUL



COMPUTER APPLICATIONS
MS[®] EXCEL FOR ENGINEERS



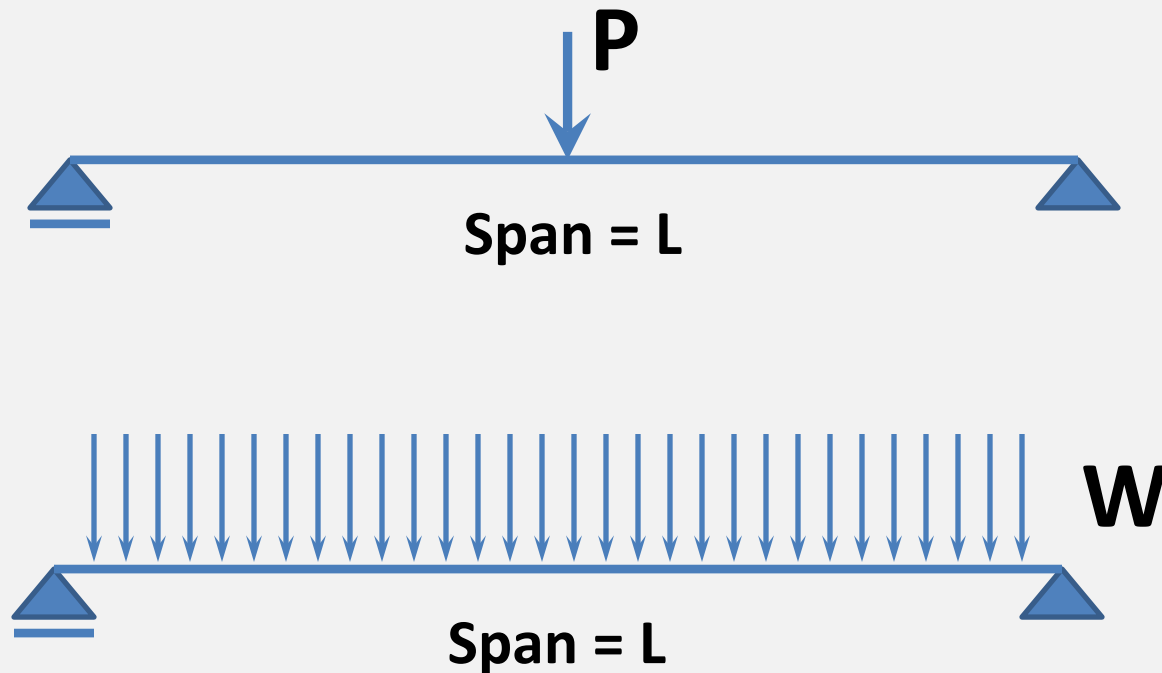
LECTURE 4
WORKING WITH GRAPHS

Walid Ahmed Daoud

October 2016

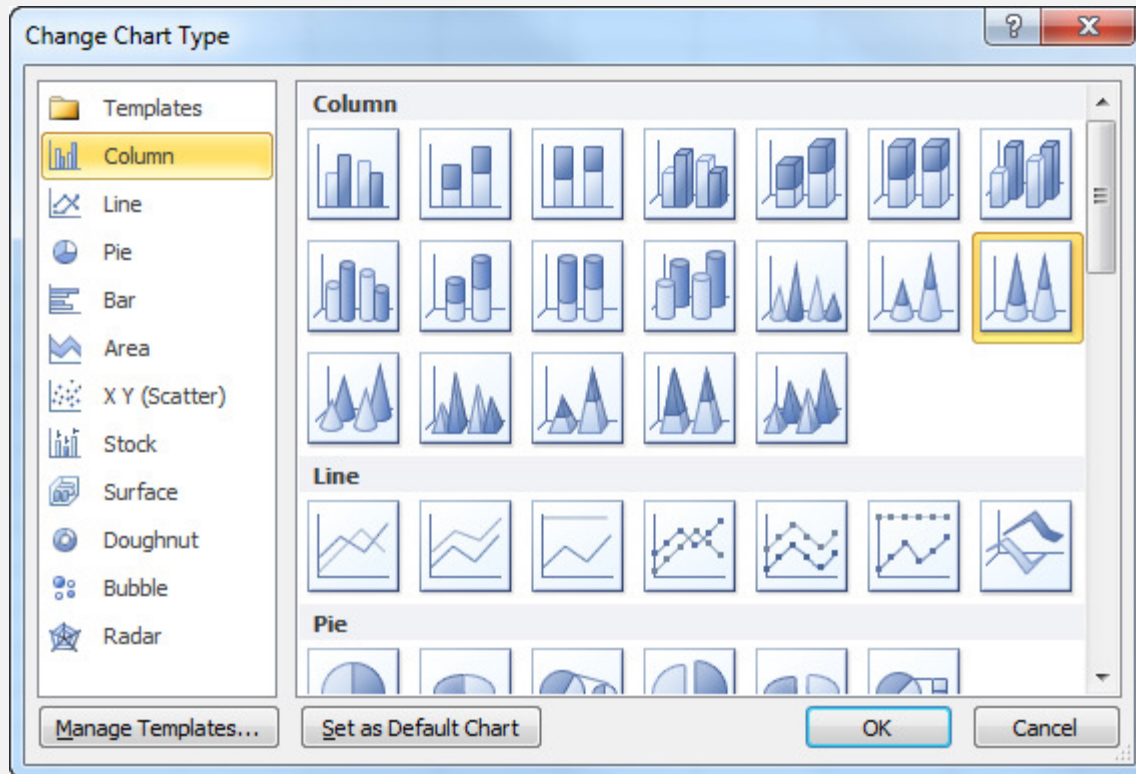
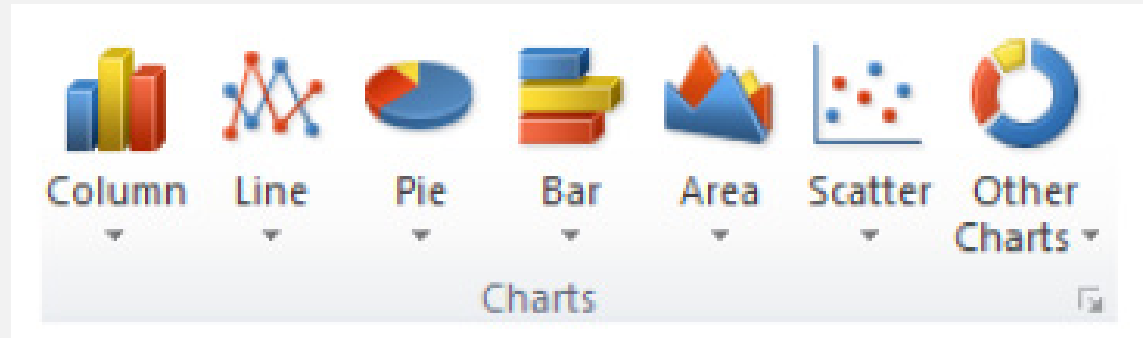
TARGET APPLICATION

- We need to Draw The Shear Force Diagram reactions, and Bending Moment Diagram for the for the below simply supported beam



EXCEL CHARTS

- **Creating a Chart**

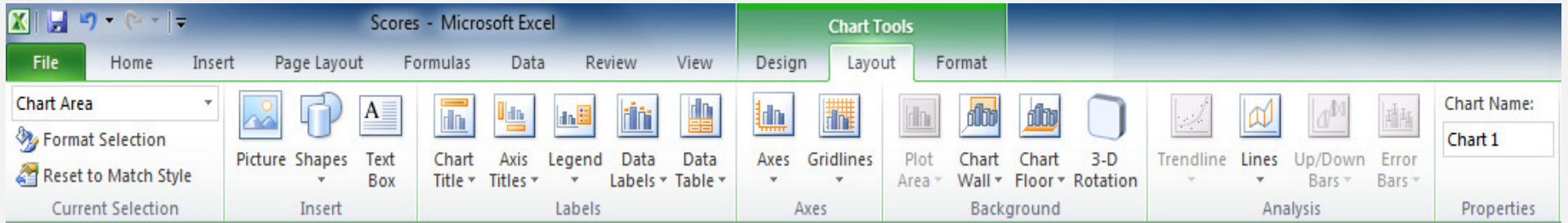


EXCEL CHARTS

- Styling Charts with the Design Tab

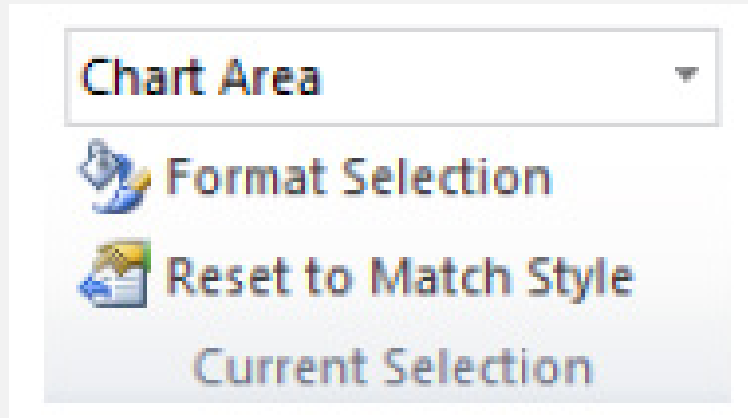
	A	B	C	D	E	F	G	H	I	J	K
1		Sales	Profits								
2	North	\$32,149.00	\$6,429.80								
3	South	\$23,847.00	\$4,769.40								
4	East	\$12,092.00	\$2,418.40								
5	West	\$ 6,612.00	\$1,322.40								
6											

- **Modifying Charts with the Layout Tab**



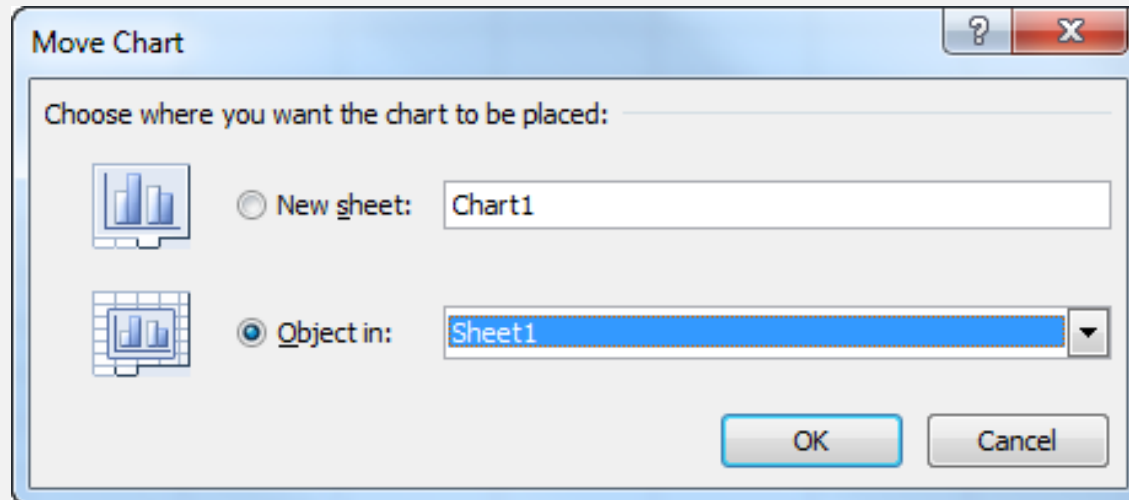


- **Additional Styles with the Format Tab**



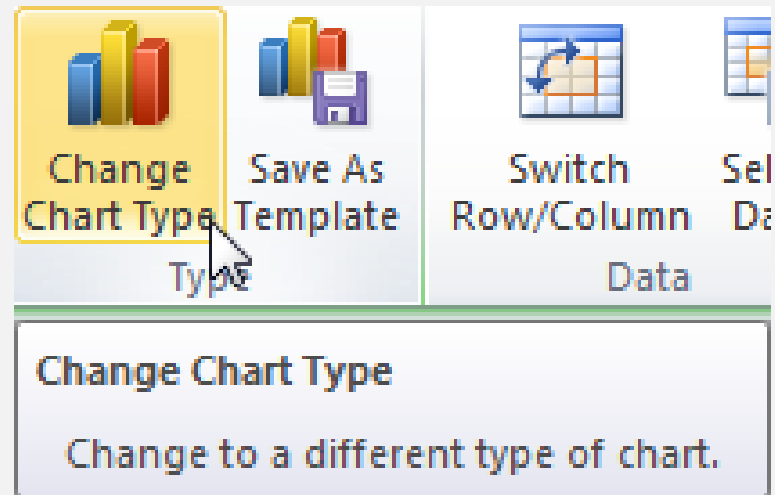


- **Manipulating a Chart**



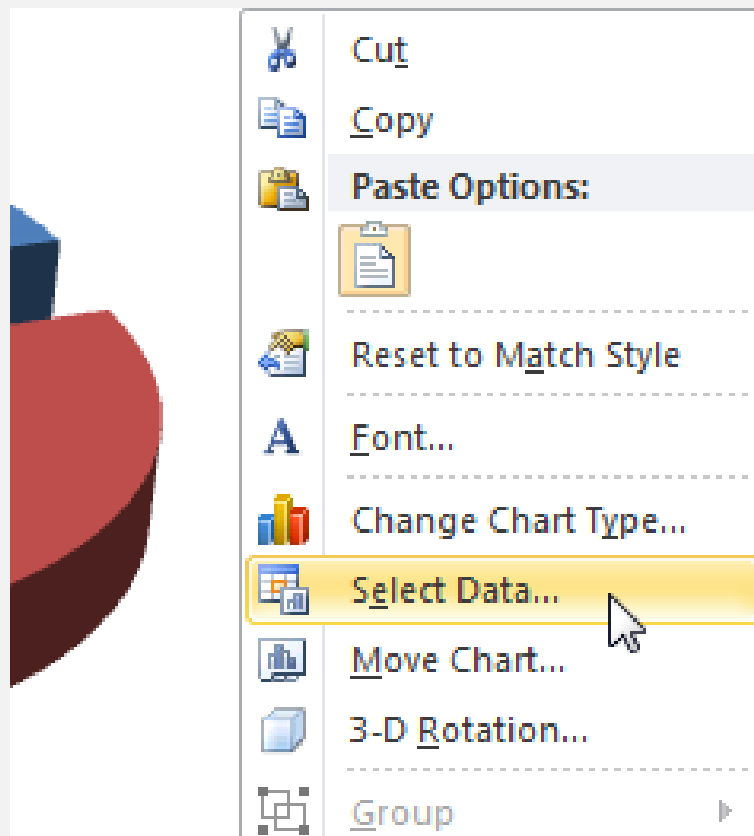


- **Changing a Chart Type**

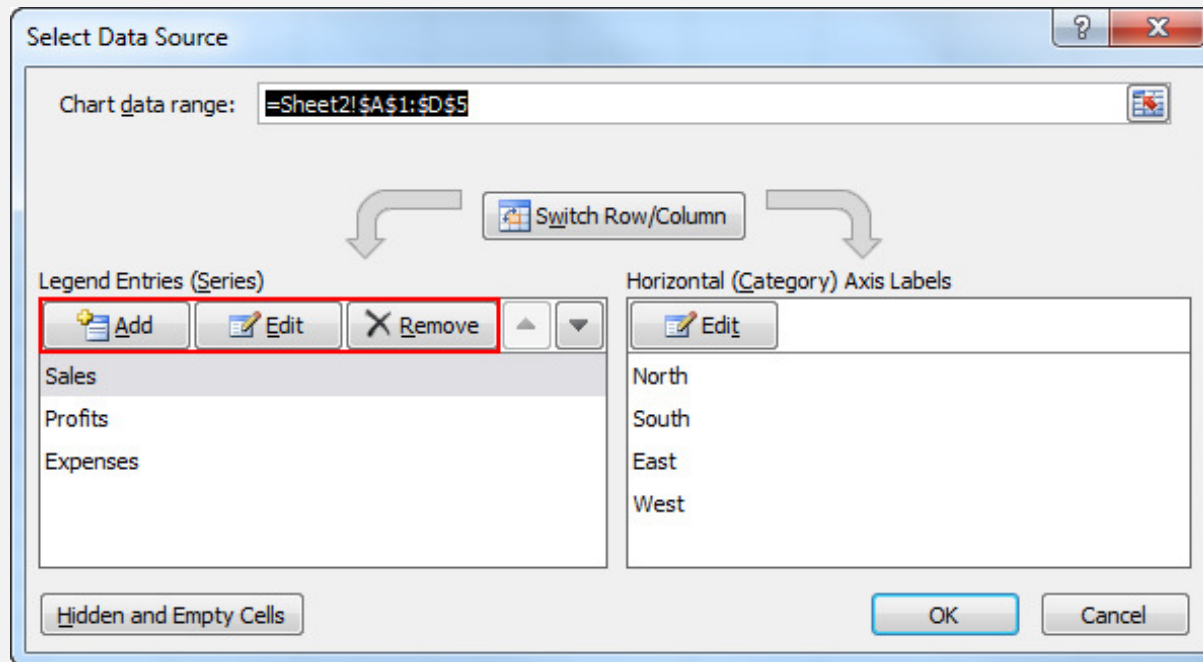




- **Changing The Source Data**

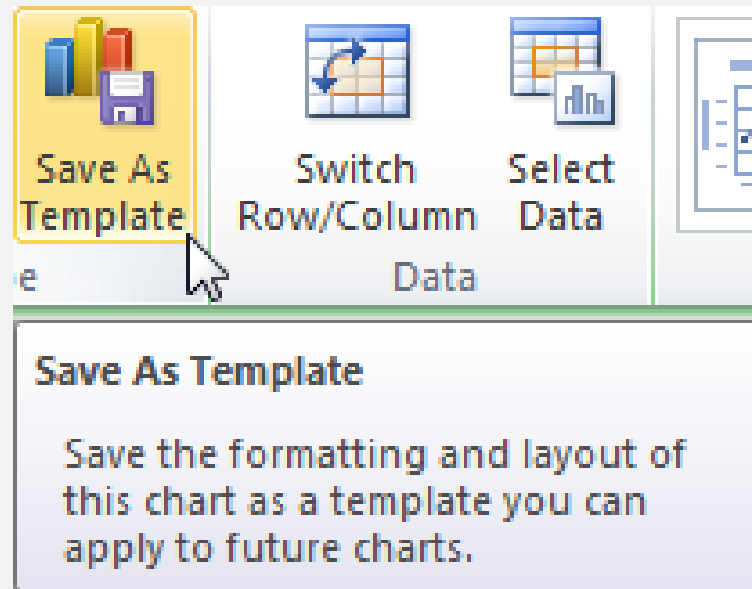


- Working with the Chart Area and Data Series

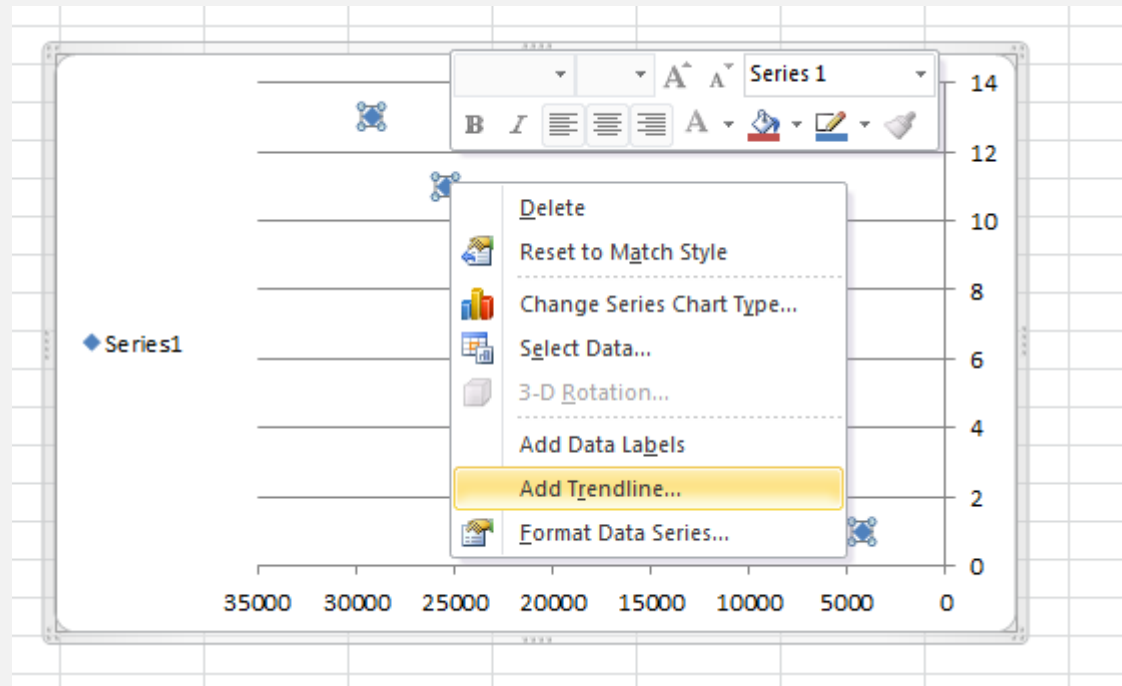




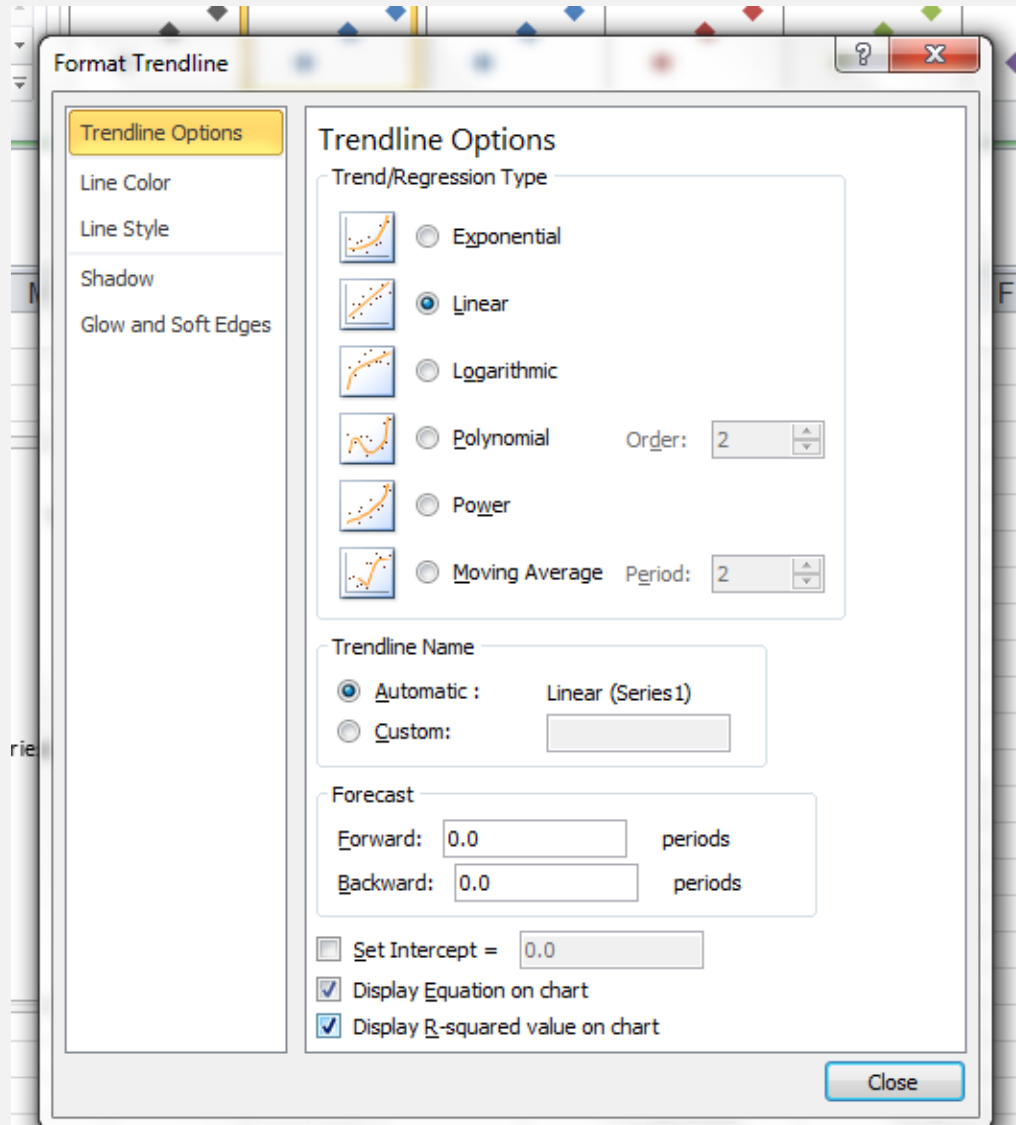
- **Saving a Chart as a Template**



- **Adding Trendline and R² Value**



- **Adding Trendline and R² Value**





- **Linear Interpolation**

- Solving the following simultaneous equations

$$a \sum_{i=1}^n x_i + bn = \sum_{i=1}^n y_i \quad (1)$$

$$a \sum_{i=1}^n x_i^2 + b \sum_{i=1}^n x_i = \sum_{i=1}^n x_i y_i \quad (2)$$



EXCEL CHARTS REVIEW
QUESTIONS





LECTURES CAN BE FOUND AT:

[HTTP://WWW.BU.EDU.EG/PORTAL/INDEX.PHP?ACT=135&PROF ID=2453&COURSE ID=6281](http://www.bu.edu.eg/portal/index.php?act=135&prof_id=2453&course_id=6281)





**THANKS FOR YOUR KIND
ATTENTION**

