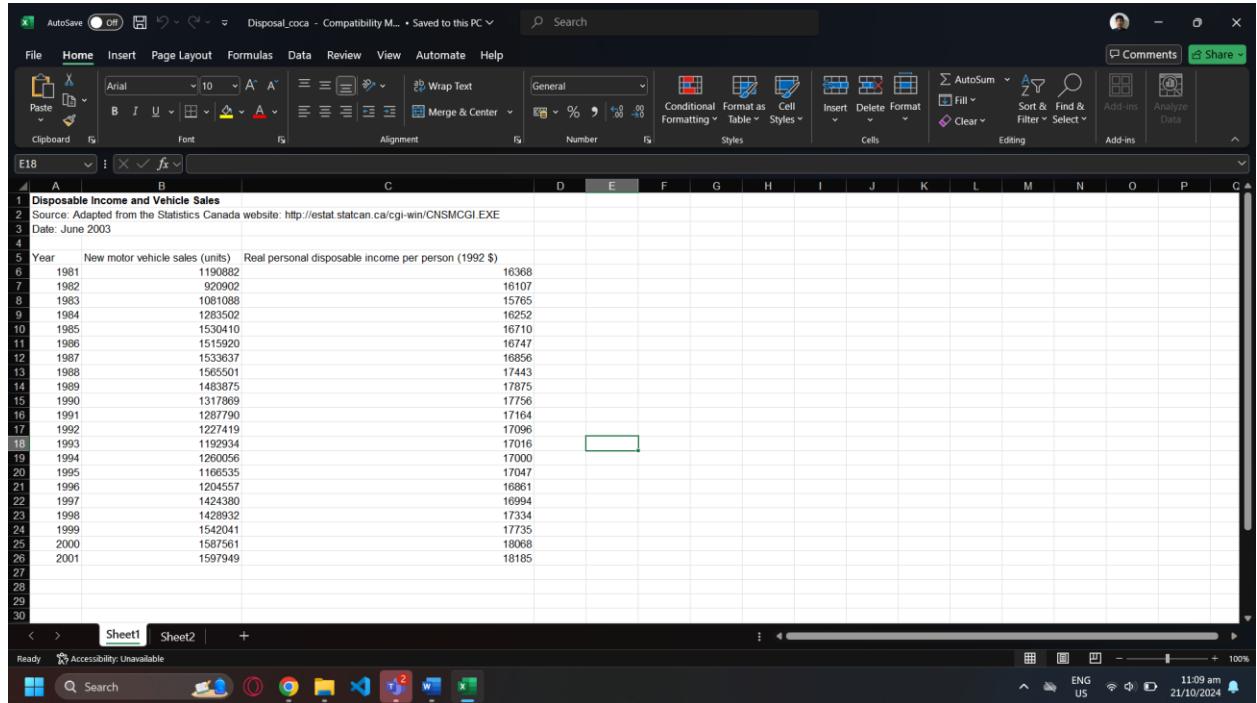
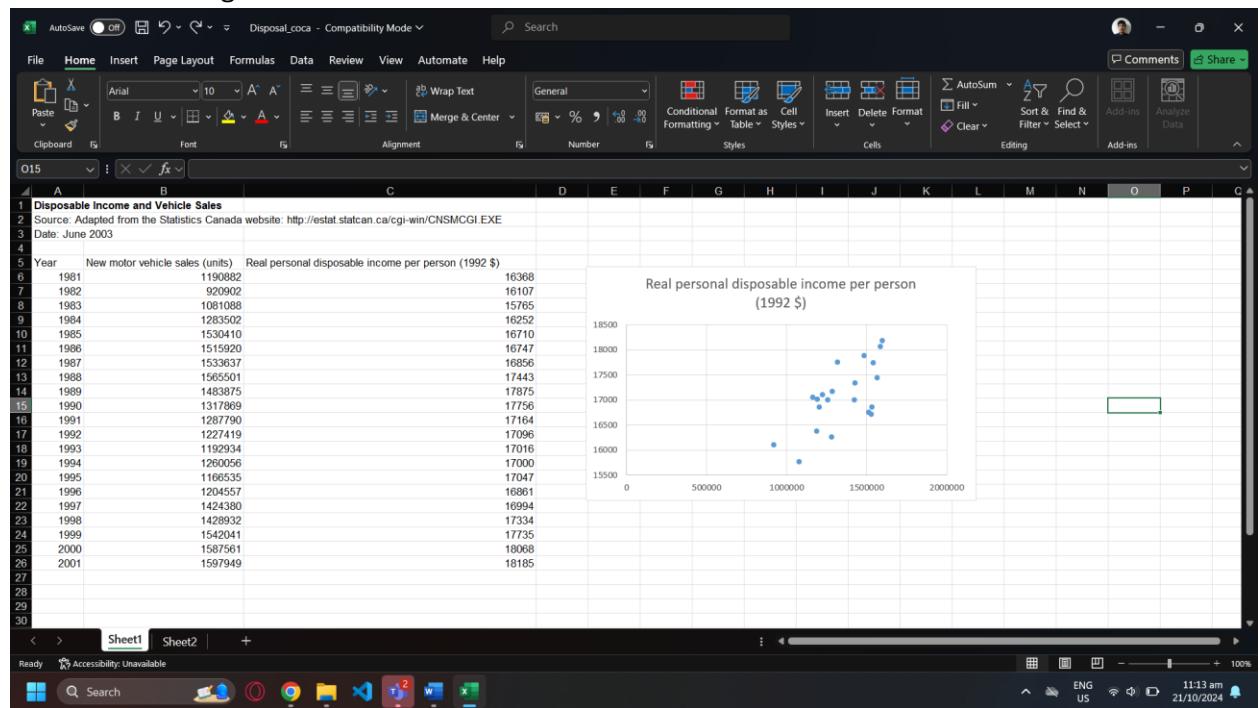


Week 4:

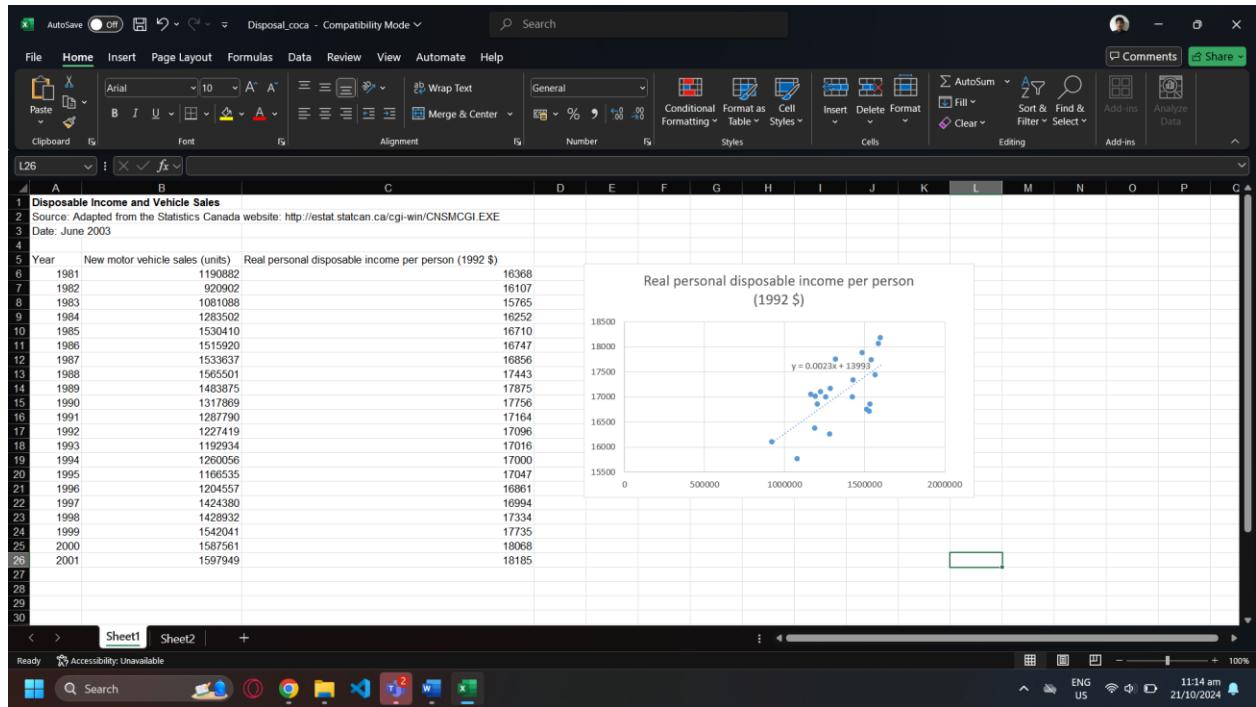
1. Disposable



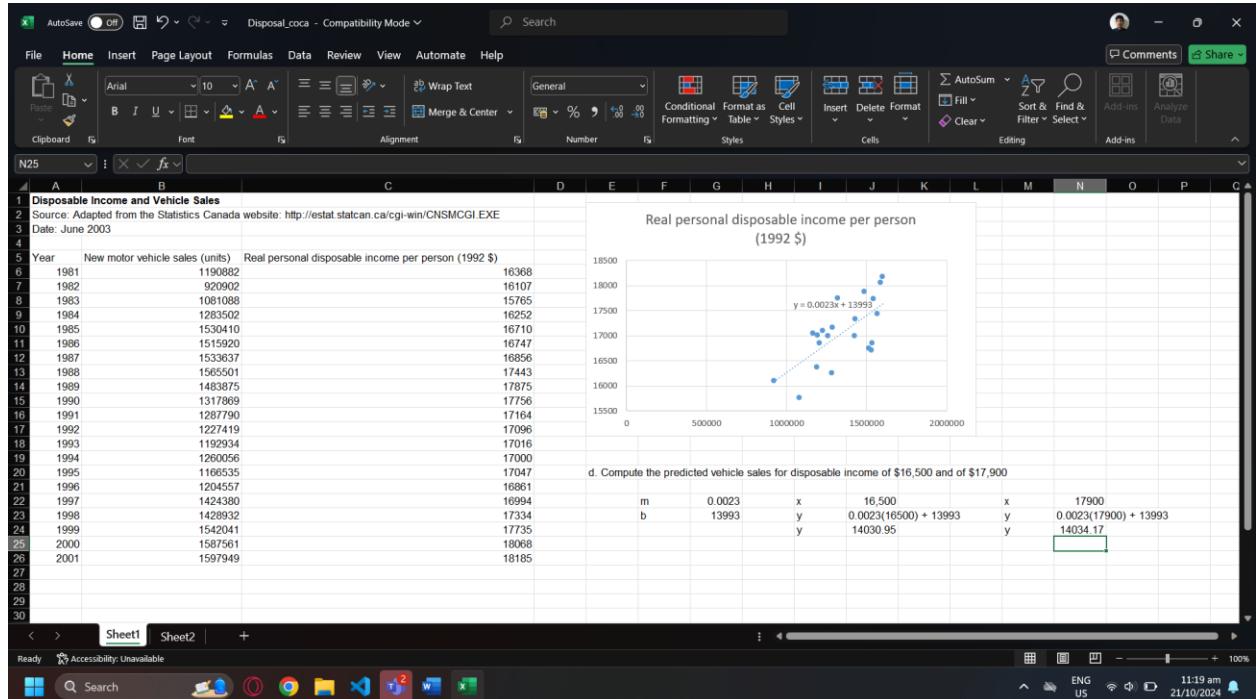
a. Plot a scatter diagram



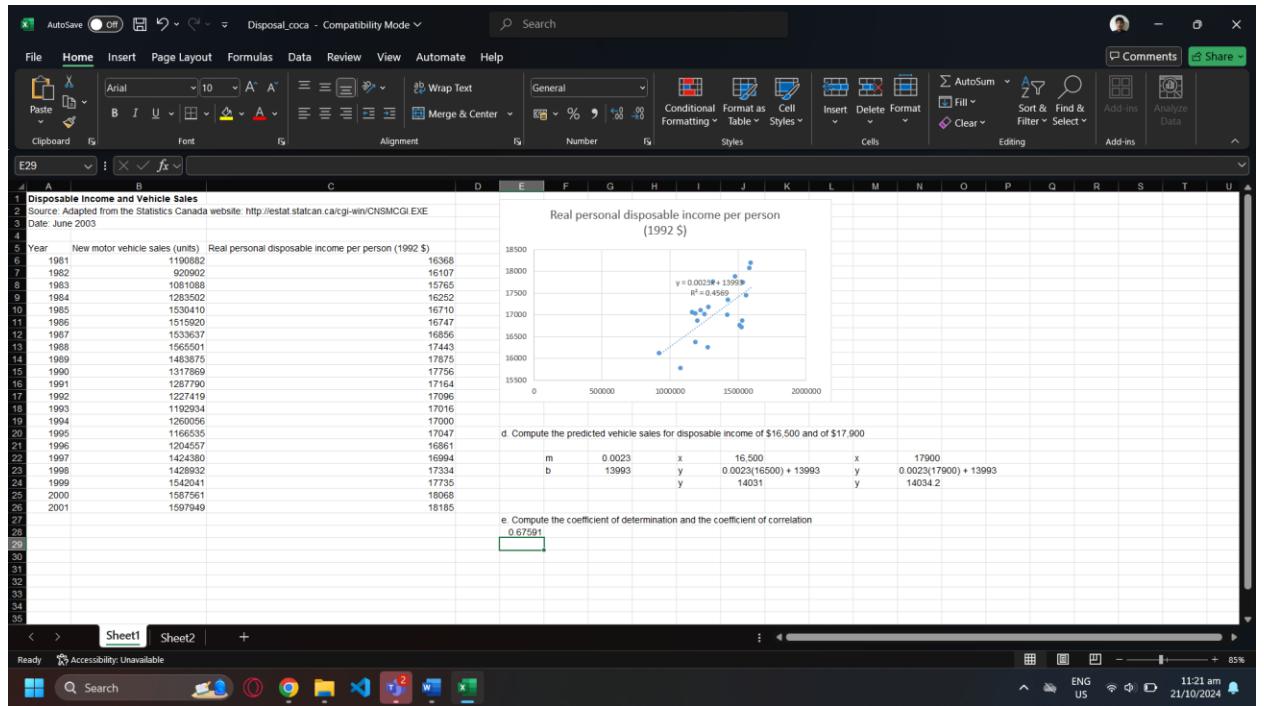
- b. Determine the regression equation.
 c. Plot the regression line.



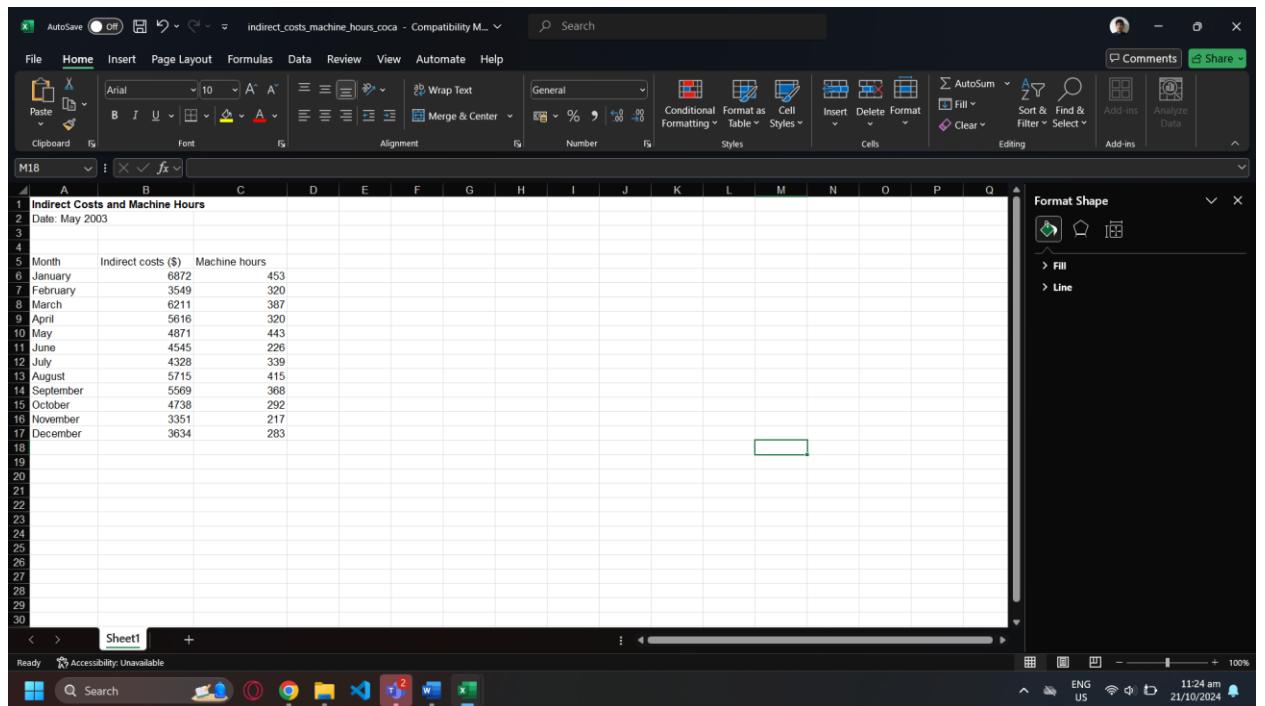
- d. Compute the predicted vehicle sales for disposable income of \$16,500 and of \$17,900



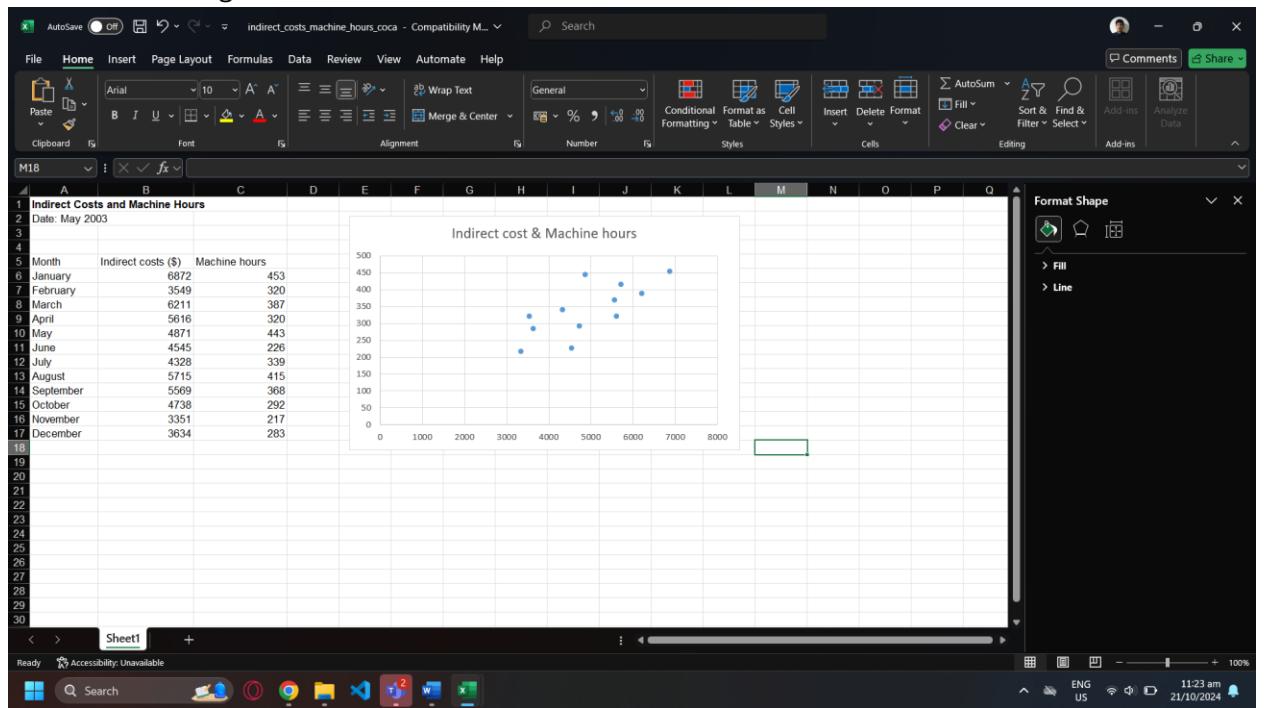
- e. Compute the coefficient of determination and the coefficient of correlation



2. Indirect cost and machine

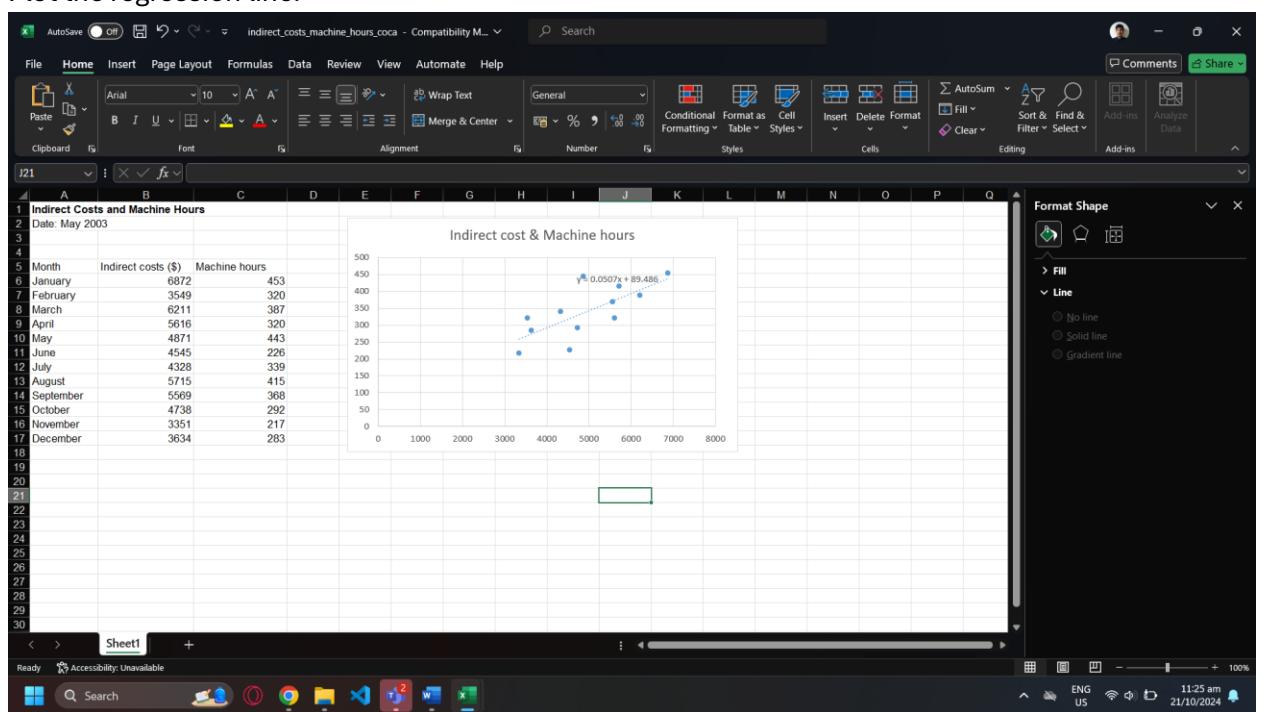


f. Plot a scatter diagram

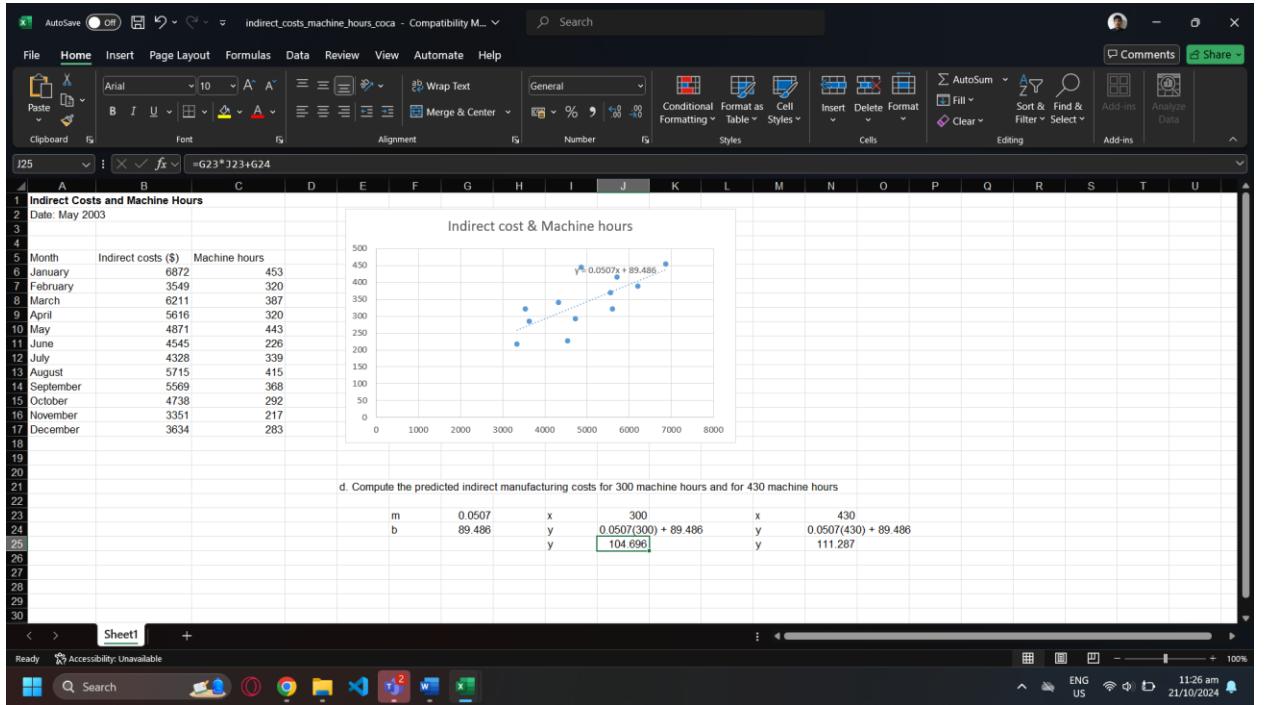


g. Determine the regression equation.

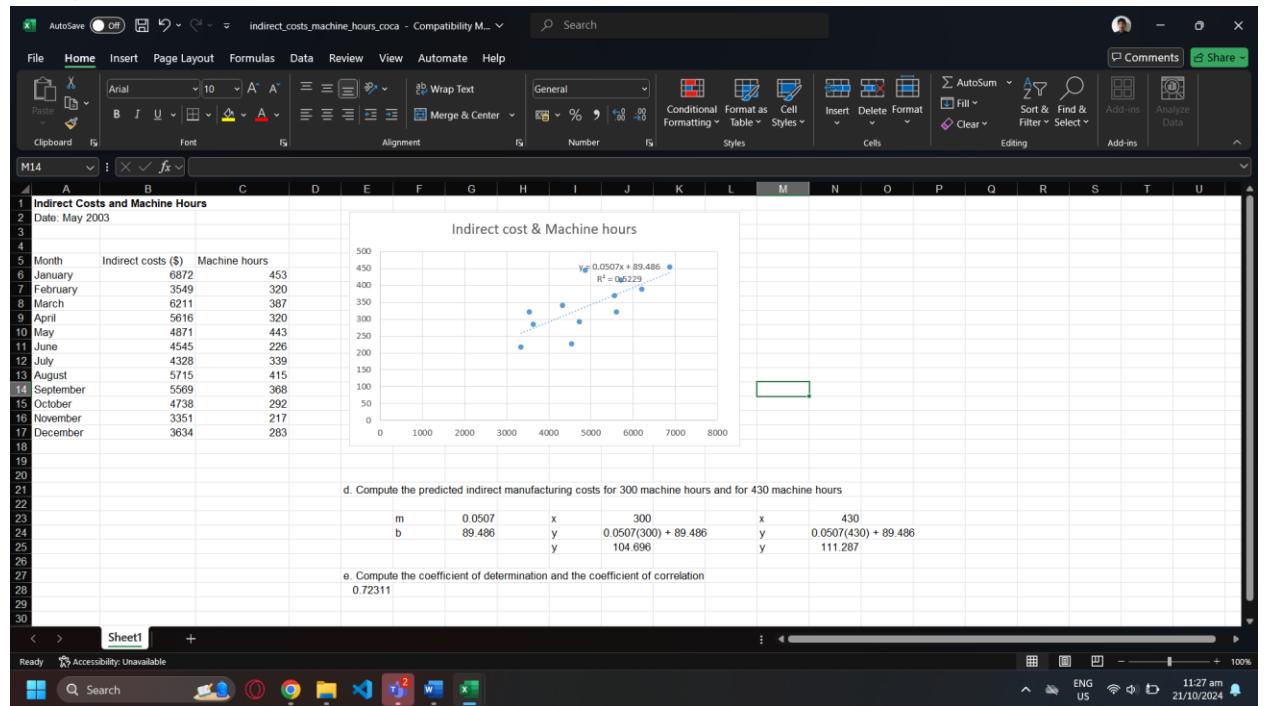
h. Plot the regression line.



d. Compute the predicted indirect manufacturing costs for 300 machine hours and for 430 machine hours



i. Compute the coefficient of determination and the coefficient of correlation

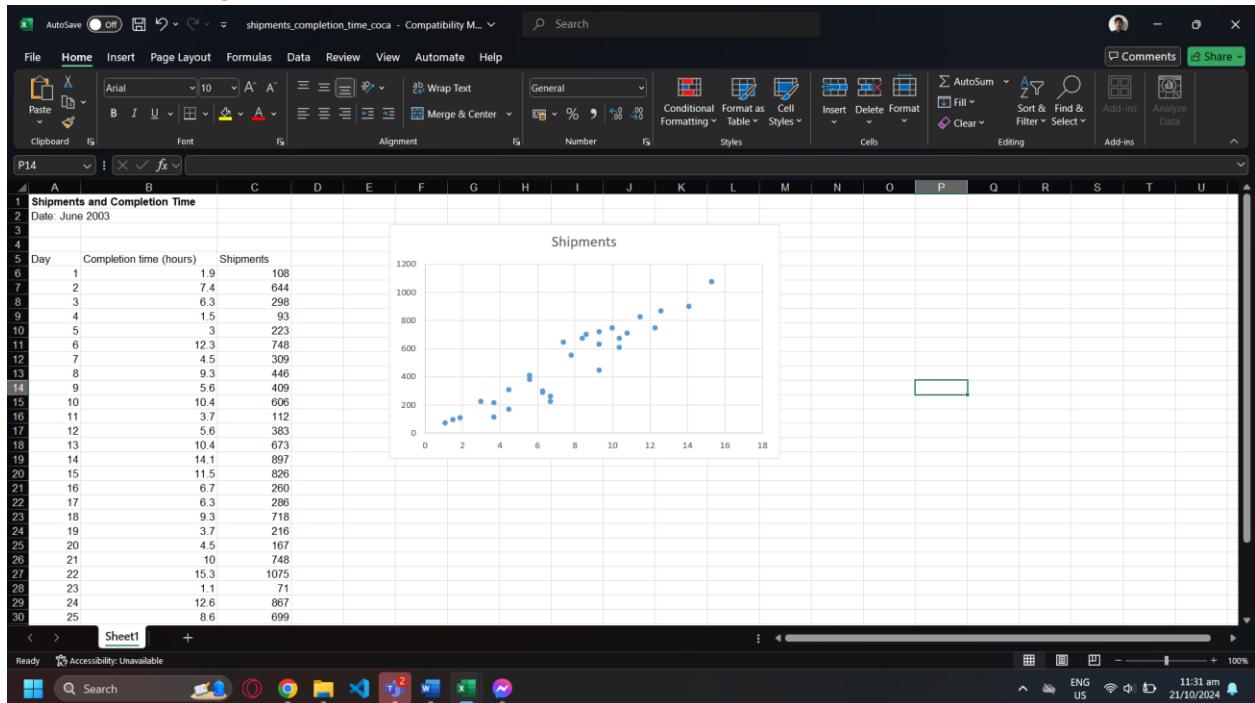


3. Manager

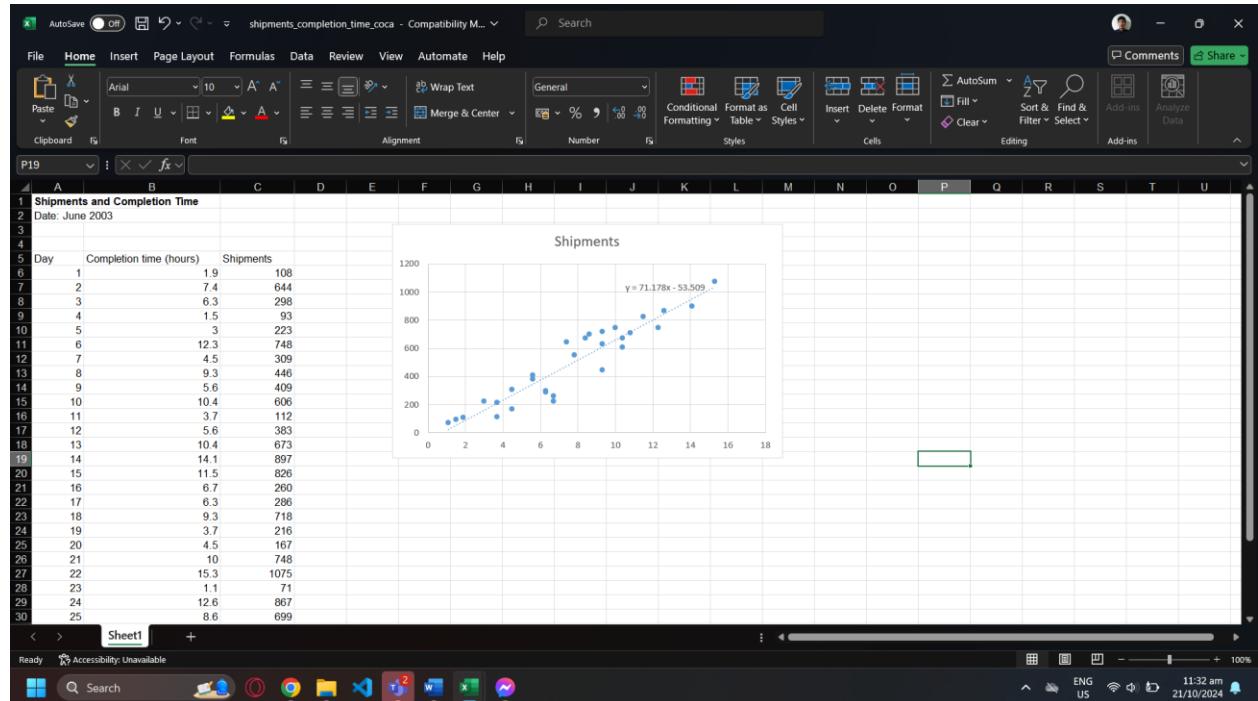
A screenshot of Microsoft Excel showing a scatter plot of Shipments versus Completion Time. The data is presented in a table on the left, and a scatter plot is displayed on the right. The table has columns for Day, Completion time (hours), and Shipments. The scatter plot shows a positive correlation between completion time and shipments.

Day	Completion time (hours)	Shipments
1	1.9	108
2	7.4	644
3	6.3	298
4	1.5	93
5	3	223
6	12.3	748
7	4.5	309
8	9.3	446
9	5.6	409
10	10.4	606
11	3.7	112
12	5.6	383
13	10.4	673
14	14.1	897
15	11.5	826
16	6.7	260
17	6.3	286
18	9.3	718
19	3.7	216
20	4.5	167
21	10	748
22	15.3	1075
23	1.1	71
24	12.6	867
25	8.6	699

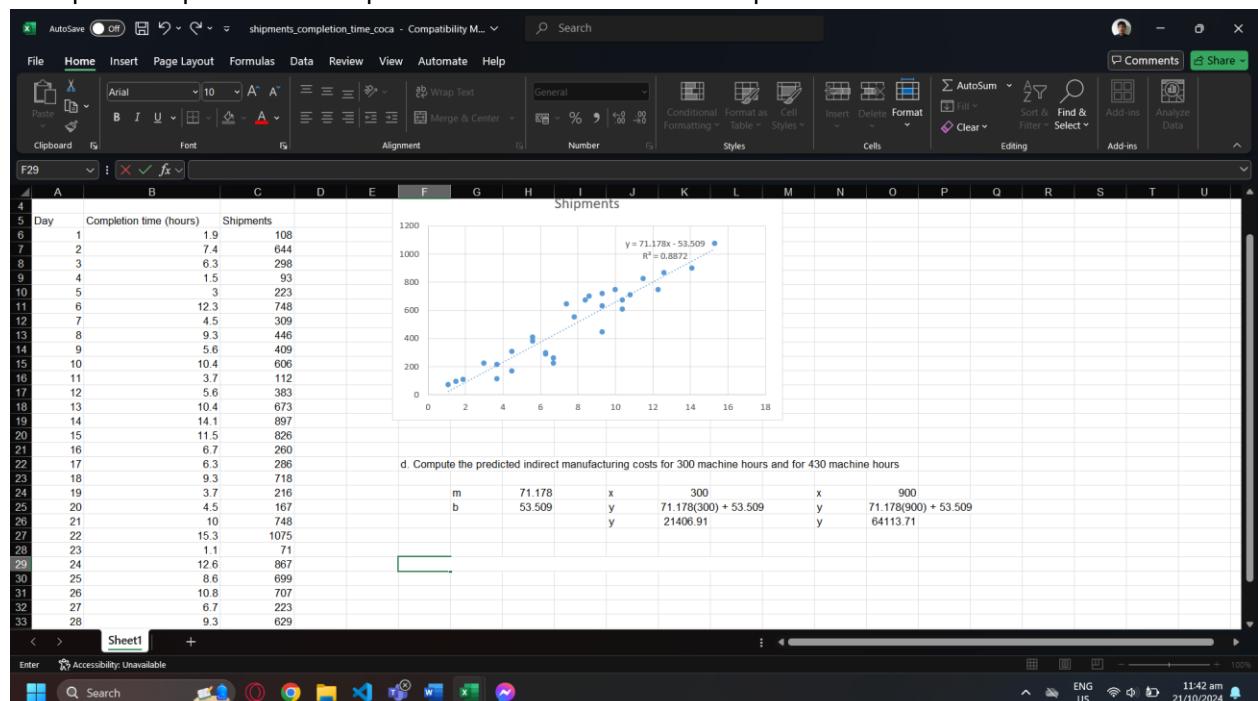
a. Plot a scatter diagram



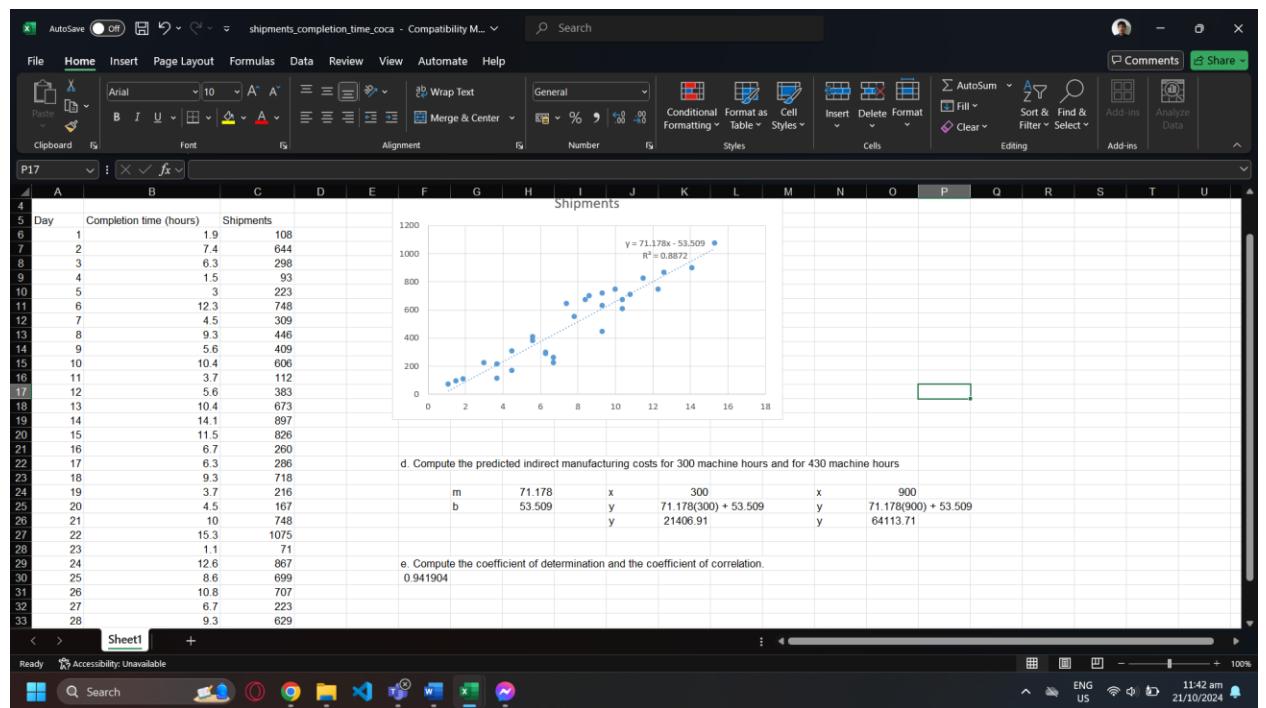
- j. Determine the regression equation.
- k. Plot the regression line.



Compute the predicted completion time for a volume of shipments of 300 and of 900.

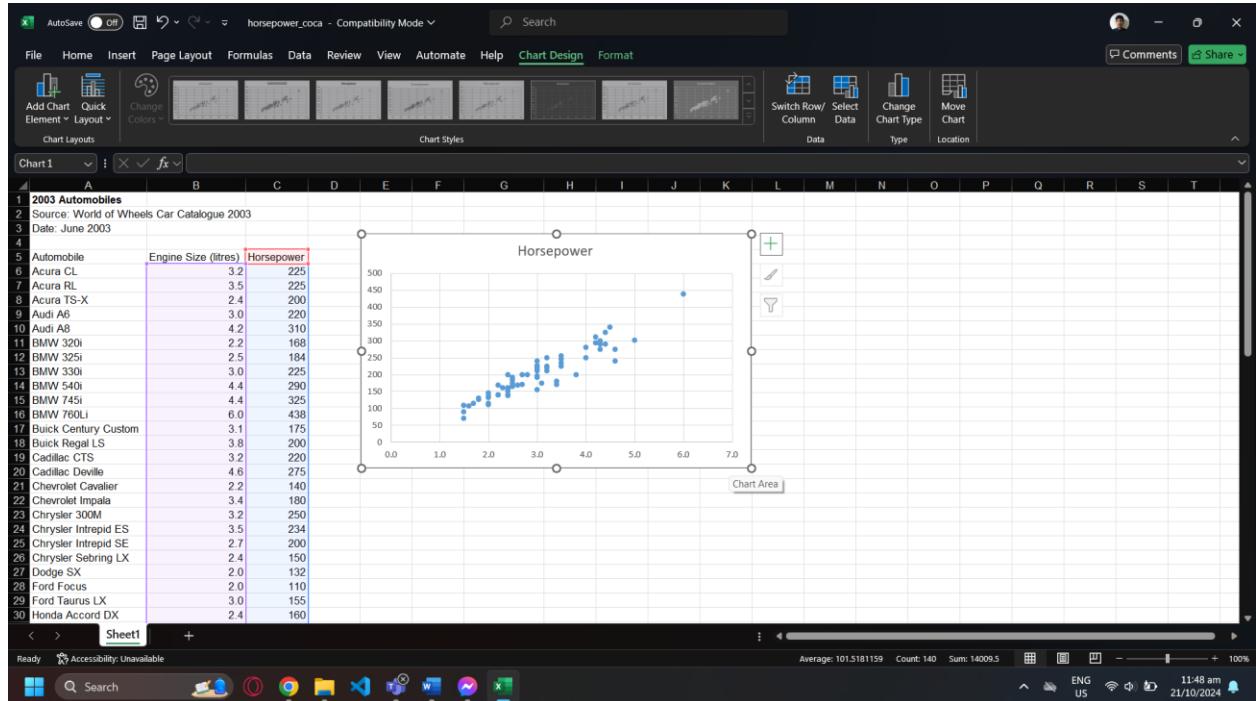


- l. Compute the coefficient of determination and the coefficient of correlation

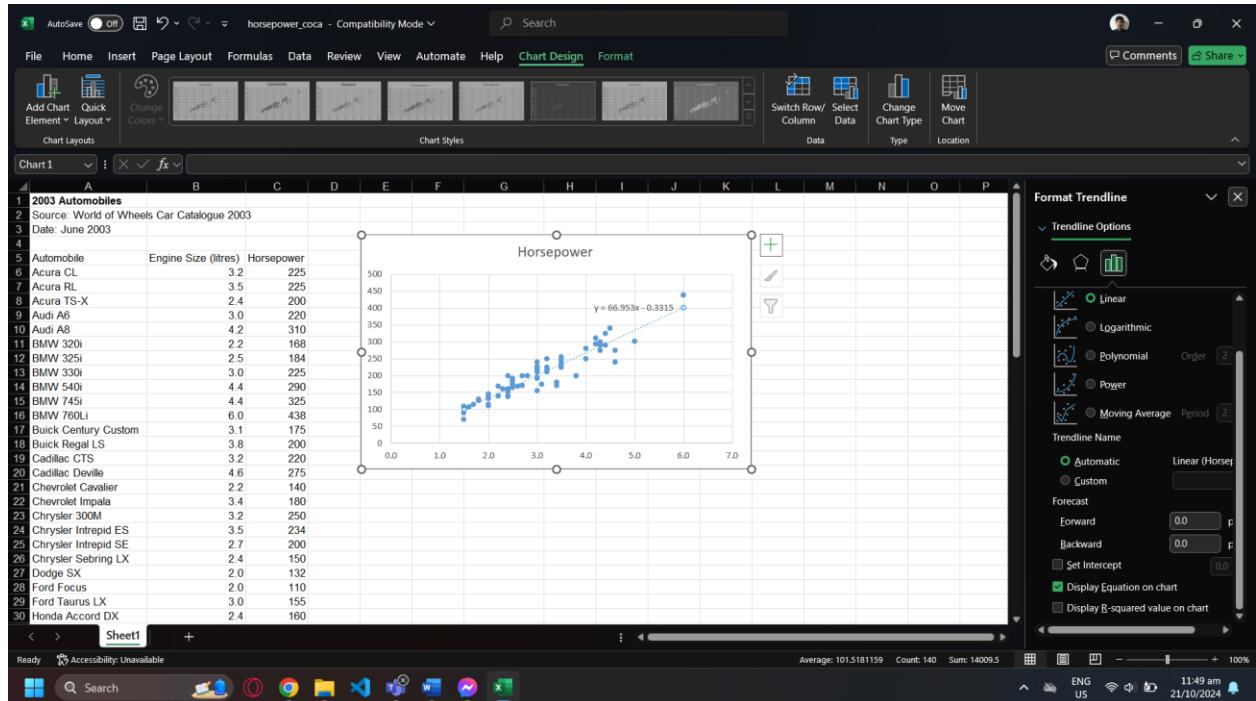


4. HORSEPOWER

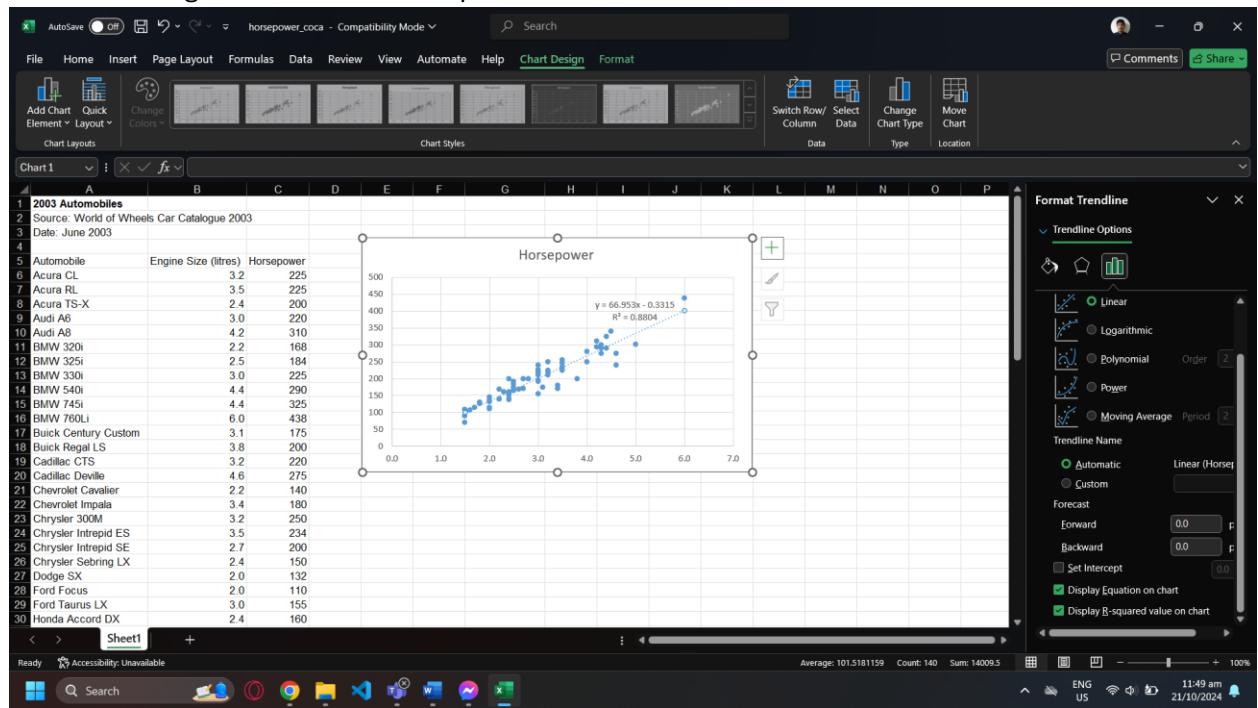
- a. Construct a scatter diagram of automobile horsepower (dependent variable is HORSEPOWER) and engine size (independent variable is ENGINE SIZE).



- b. Determine the regression equation.

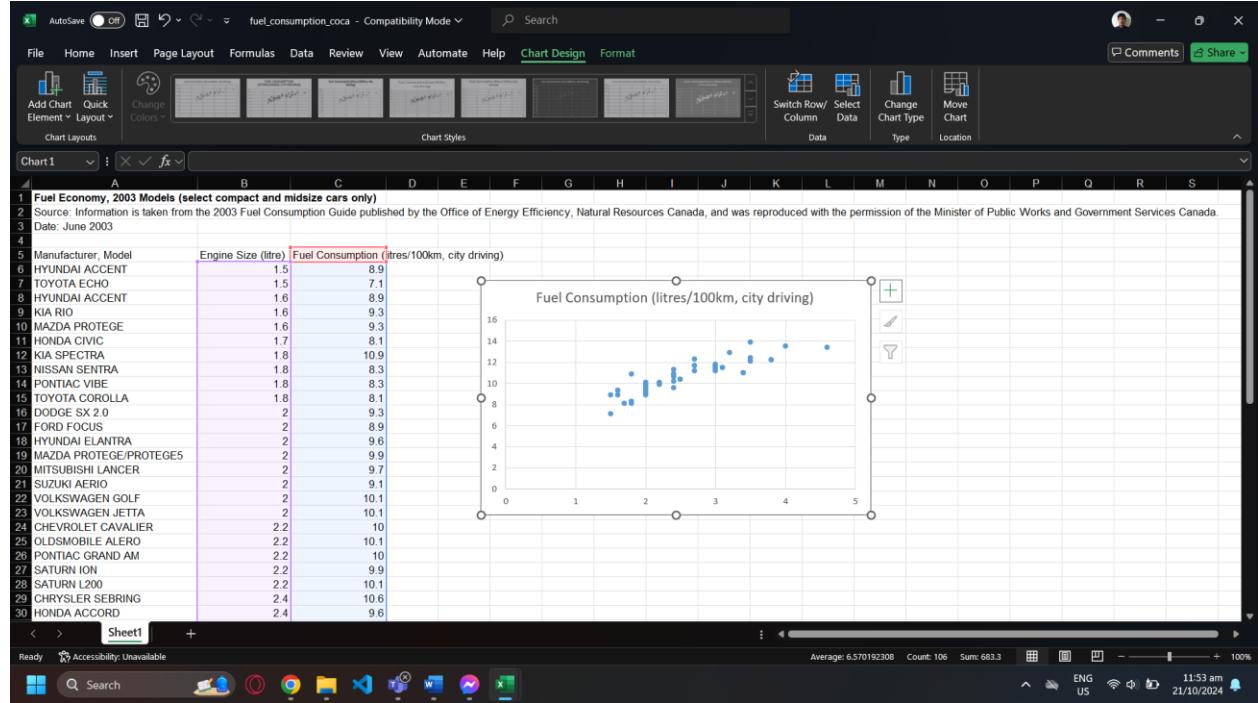


c. Plot the regression line and compute the coefficient of determination.

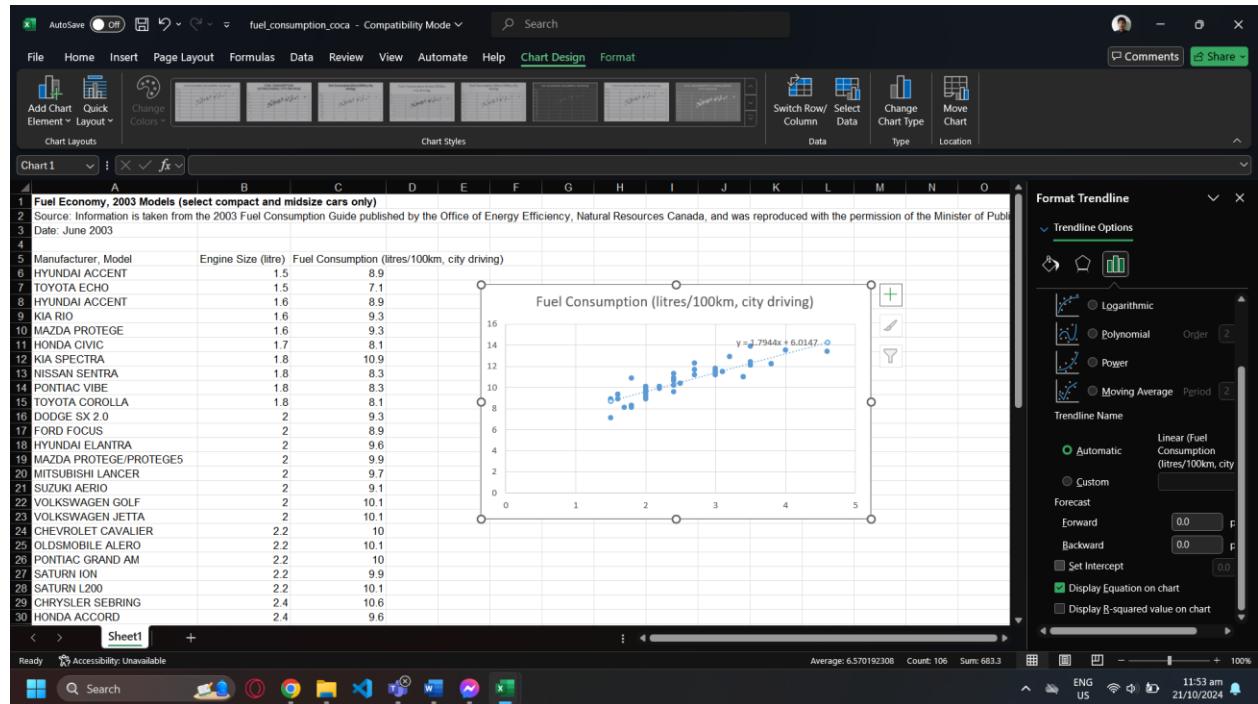


5. FUEL CONSUMPTION

Construct a scatter diagram of automobile fuel consumption (dependent variable is FUEL CONSUMPTION) and engine size (independent variable is ENGINE SIZE).



Determine the regression equation.



Plot the regression line and compute the coefficient of determination.

