

Project # 1

Regression Date: _____ Section: _____ Name: _____

Use the data and plot them as a scattered diagram on the provided graphs below.

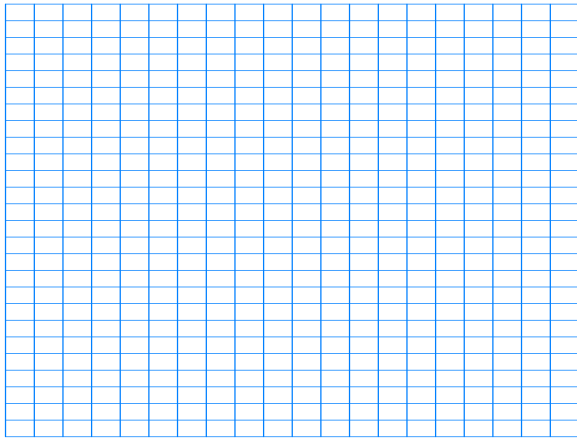
Rather plotting the data, you can use excel to do scattered diagram and then copy graphs and paste it to this document

Answer questions 1 through 8 All the answers must be in 2 decimal places

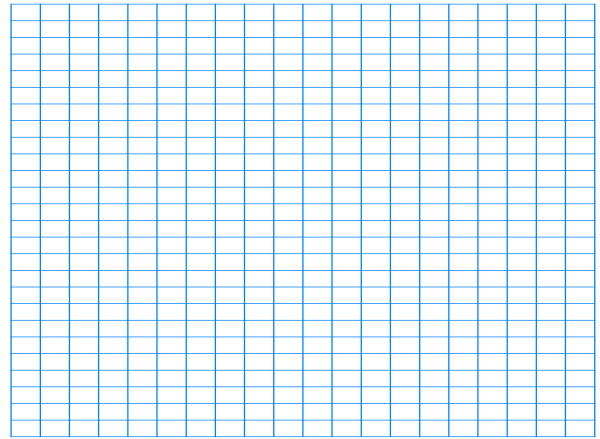
A	Xa	10	14	5	8	9	12	4	7	11	13	6
	Ya	8.04	9.96	5.68	6.95	8.81	10.84	4.26	4.82	8.33	7.58	7.24

B	Xb	10	14	5	8	9	12	4	7	11	13	6
	Yb	9.14	8.1	4.74	8.14	8.77	9.13	3.1	7.26	9.26	8.74	6.13

A(Xa,Ya)



B(Xb,Yb)



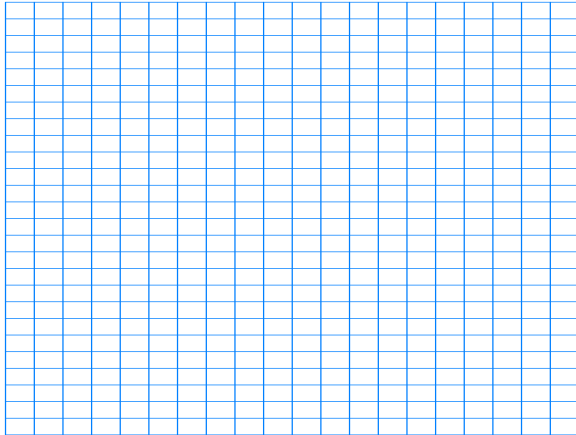
1. Comment on the graph (Linear /nonlinear/outlier/none)?
2. Correlation Coefficient: $r =$ _____
3. Comment about r : _____
4. Slope, Y-its : _____, _____
5. Write regression equation $y =$ _____
6. Average for **Xa, Ya**: $\bar{x} =$ _____, $\bar{y} =$ _____
7. St. Dev. for **Xa, Ya**: $s_x =$ _____, $s_y =$ _____
8. Based on graph of step 1, are answers 2-5 valid?
(Linear /nonlinear/outlier/none)?
Yes or No, **Explain**:

1. Comment on the graph (Linear /nonlinear/outlier/none)?
2. Correlation Coefficient: $r =$ _____
3. Comment about r : _____
4. Slope, Y-its : _____, _____
5. Write regression equation $y =$ _____
6. Average for **Xb, Yb**: $\bar{x} =$ _____, $\bar{y} =$ _____
7. St. Dev. for **Xb, Yb**: $s_x =$ _____, $s_y =$ _____
8. Based on graph of step 1, are answers 2-5 valid?
(Linear /nonlinear/outlier/none)?
Yes or No, **Explain**

C	Xc	10	14	5	8	9	12	4	7	11	13	6
	Yc	7.46	8.84	5.73	6.77	7.11	8.15	5.39	6.42	7.81	12.74	6.08

D	Xd	8	8	8	8	8	8	8	19	8	8	8
	Yd	6.58	5.76	7.71	8.84	8.47	7.04	5.25	12.5	5.56	7.91	6.89

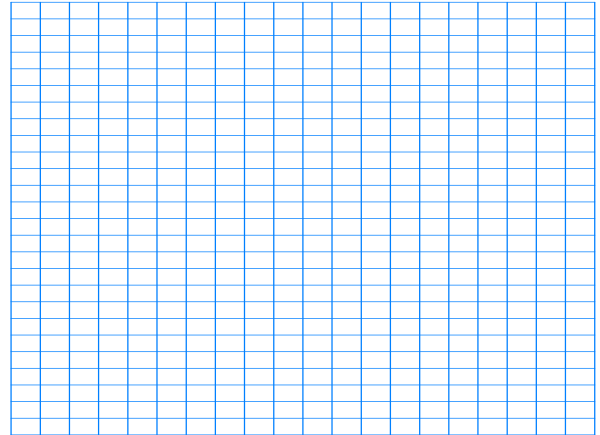
C (Xc,Yc)



1. Comment on the graph (Linear /nonlinear/outlier/none)?
2. Correlation Coefficient: $r =$ _____
3. Comment about r : _____
4. Slope, Y-its : _____, _____
5. Write regression equation $y =$ _____
6. Average for **Xc, Yc**: $\bar{x} =$ _____, $\bar{y} =$ _____
7. St. Dev. for **Xc, Yc**: $s_x =$ _____, $s_y =$ _____
8. Based on graph of step 1, are answers 2-5 valid?
(Linear /nonlinear/outlier/none)?

Yes or No, **Explain**:

D(Xd,Yd)



1. Comment on the graph (Linear /nonlinear/outlier/none)?
2. Correlation Coefficient: $r =$ _____
3. Comment about r : _____
4. Slope, Y-its : _____, _____
5. Write regression equation $y =$ _____
6. Average for **Xd, Yd**: $\bar{x} =$ _____, $\bar{y} =$ _____
7. St. Dev. for **Xd, Yd**: $s_x =$ _____, $s_y =$ _____
8. Based on graph of step 1, are answers 2-5 valid?
(Linear /nonlinear/outlier/none)?

Yes or No, **Explain**