

Question 35

With the aid of a diagram if you wish, illustrate that a sample of bivariate data can have a very high Spearman correlation but not such a high Pearson correlation.

[2]

Do not write
in this margin



Question 36

In the same study as Question 32, the data portrayed in Figure 7 on acid concentration and air flow in a chemical plant were obtained.

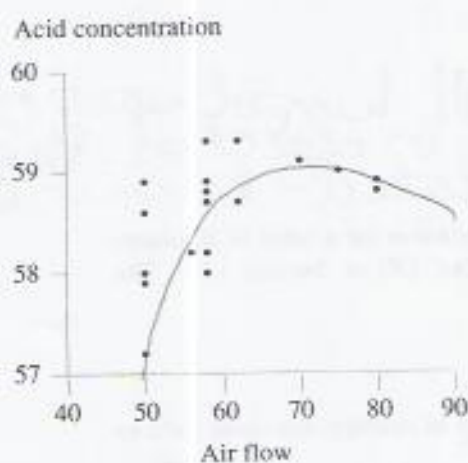


Figure 7

The sample Pearson correlation coefficient for these data is 0.50. In a test of the hypothesis that the population correlation is 0, the total SP was 0.021. Briefly describe the relationship between these two variables.

The relationship is non linear, ^[3] and quite weak.
Acid