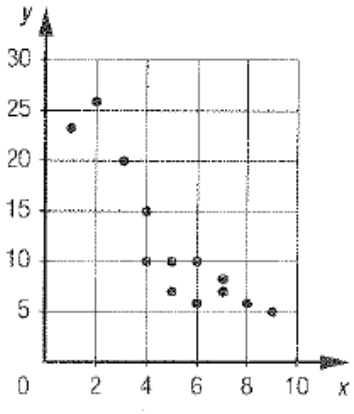
Linear Correlation & Contingency Tables

1)

Refer to the scatter plot below to answer the following questions.

a) Fill in the contingency table.

x \ y	[0, 5[	[5, 10[	[10, 15[	[15, 20[	[20, 25[	[25, 30[
[0, 2[						
[2, 4[						
[4, 6[						
[6, 8[						
[8, 10[						



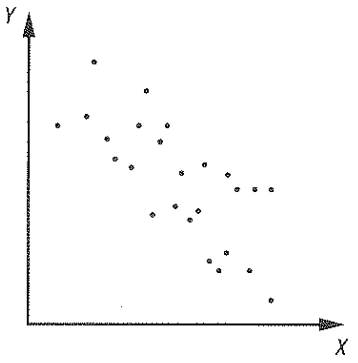
b) Looking solely at the contingency table, how would you describe the linear correlation?

c) Looking solely at the scatter plot, how would you describe the linear correlation?

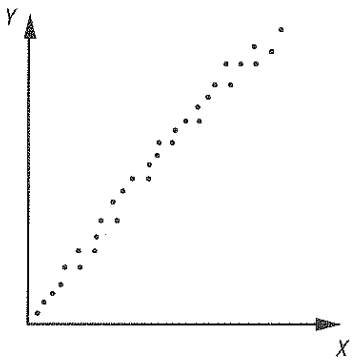
d) Which representation gives a more accurate idea of the linear correlation?

2) Estimate the linear correlation coefficient for each scatter plot:

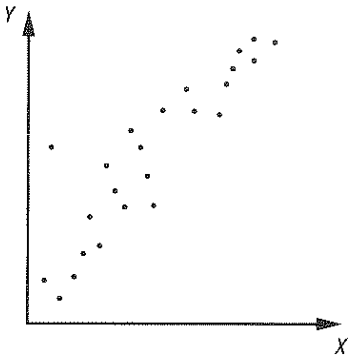
a)



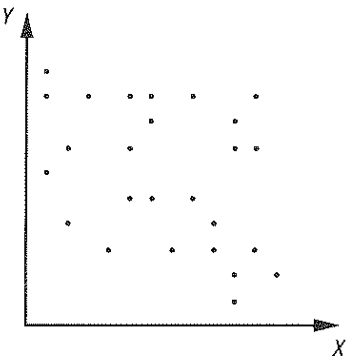
b)



c)



d)



3) Rank the following linear correlation coefficients from weakest to strongest:

-0.8 0.9 -1 0.1 0.02 -0.3 -0.78 0.77 -0.93