

Do Now

**Exercise #1:** Given the scatter plot shown below, which of the  $r$ -values would most likely represent the correlation between the two variables? Explain your choice.

*Correlation coefficient*

(1)  $r = 0.88$

(3)  $r = 1$  perfect pos

(2)  $r = 0.28$

(4)  $r = -0.94$  strong neg

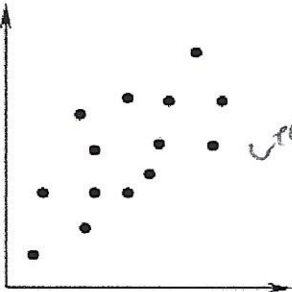
*weak pos*



*data is close to resembling pos. line.*

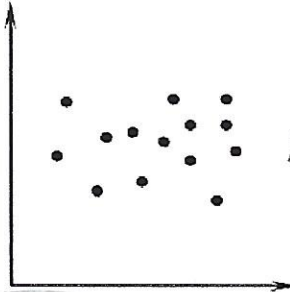
**Exercise #2:** Which of the following scatter plots would have a correlation coefficient closest to  $-1$ ?

(1)



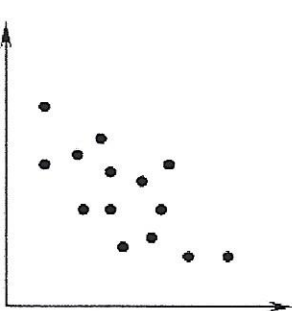
*weak pos.*

(3)



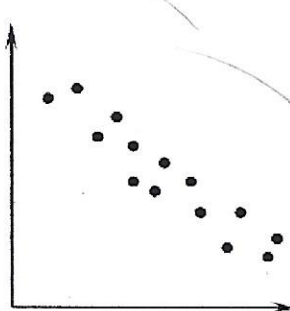
*no correlation*

(2)



*↑ weak neg*

(4)



*Neg. correlation close to a straight line Negative*