LINEAR RELATIONSHIP AND THE CORRELATION COEFFICIENT

Shown below are the scatter plots for four different data sets.

Answer the questions that follow. The same response may be the correct answer for more than one question.

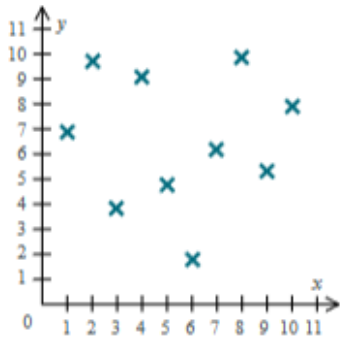


Figure 1

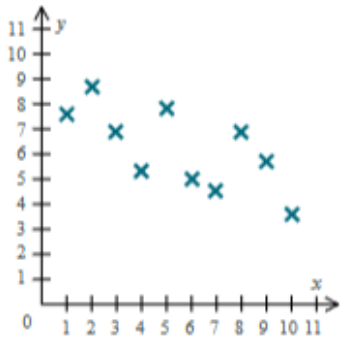


Figure 2

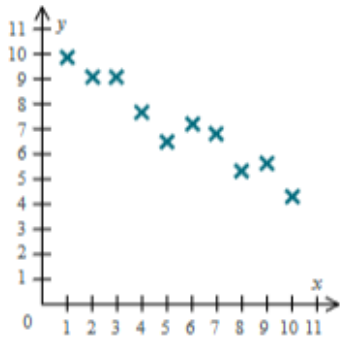


Figure 3

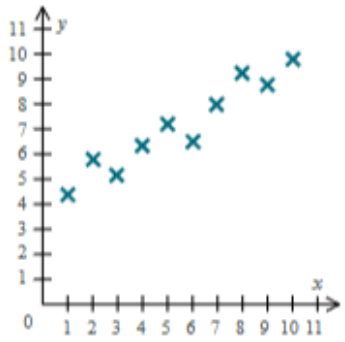


Figure 4

1. For which data set is the correlation coefficient *r* closest to -1?
2. Which data set indicates the strongest positive linear relationship between its two variables?
3. For which data set is the correlation coefficient *r* closest to 0?

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1. FIG. 3: POINTS FOLLOW A DOWNWARD LINE MOST CLOSELY
2. FIG. 4: POINTS CLOSELY FOLLOW AN UPWARD LINE
3. FIG. 1: POINTS SHOW NO CLEAR STRAIGHT-LINE PATTERN

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