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| 1. |  |
| 2. | Consider the linear correlation between variables *x* and *y* of a statistical distribution. The scatter plot below represents this distributionWhat is the approximate value of the linear correlation coefficient between these two variables? |
|  | Answer : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| 3. | Information on two games of chance is provided below.**Game 1**After placing a bet, the player spins a wheel.This wheel is divided into 8 congruent sectors: 3 are bluer and 5 are red.* if the pointer is pointing at a blue sector, the player will receive $20
* if the pointer is pointing at a red sector, the player will receive $12

The game is fair.**Game 2**After placing a bet, the player randomly draws a marble from a bag.The bag contains 20 congruent marbles: 7 are black, 4 are yellow and 9 are green.* If a black marble is drawn, the player will receive $50.
* If a yellow marble is drawn, the player will receive $2.
* If a green marble is drawn, the player will not receive any money.

A player must bet the same amount of money to play either Game 2 or Game 1.Is Game 2 to the player’s advantage, to the player’s disadvantage, or fair?Explain your answer. |