

# IPRAM

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Grado y Carrera: 5.to Admón

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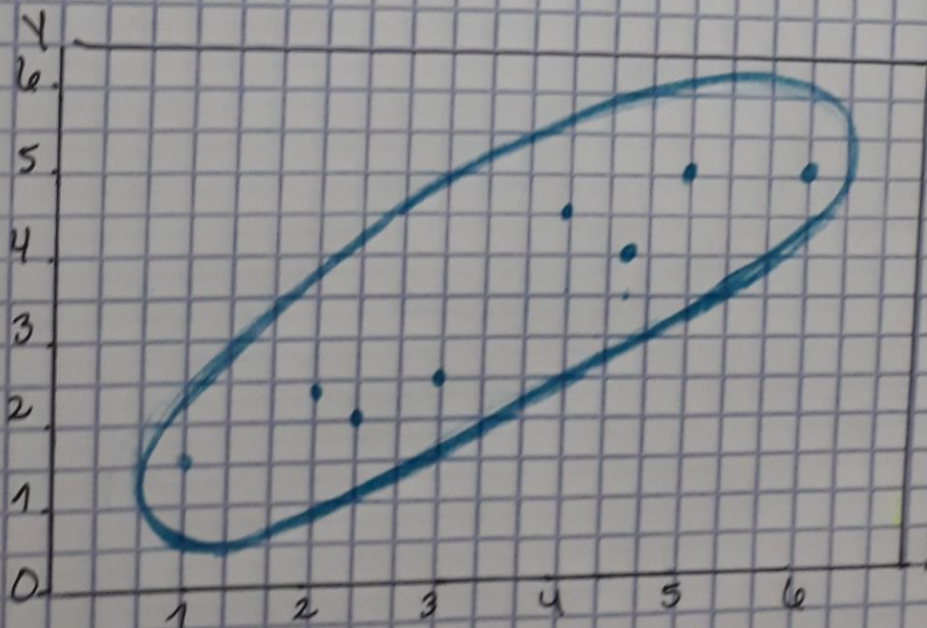
# ESTADISTICA

Actividad #4

Actividad no. 4 Shyela Alvarado

Demuestra que el coeficiente de correlación es igual a 0.9  
correlación positiva excelente

| X   | Y    | X <sup>2</sup> | Y <sup>2</sup> | XY     |
|-----|------|----------------|----------------|--------|
| 1   | 1.5  | 1              | 2.25           | 1.50   |
| 2   | 2.2  | 4              | 4.84           | 4.40   |
| 2.5 | 2    | 6.25           | 4              | 5.00   |
| 3   | 2.5  | 9              | 6.25           | 7.50   |
| 4   | 4.5  | 16             | 20.25          | 18     |
| 4.5 | 4    | 20.25          | 16             | 18     |
| 5   | 5    | 25             | 25             | 25     |
| 6   | 5    | 36             | 25             | 30     |
| 28  | 26.7 | 117.50         | 103.39         | 109.40 |



correlación  
positiva

$$r = \frac{N \sum (XY) - \sum X \sum Y}{\sqrt{[N \sum X^2 - (\sum X)^2] [N \sum Y^2 - (\sum Y)^2]}}$$

$$r = \frac{8 \cdot 107.4 - 28 \cdot 26.7}{\sqrt{8 \cdot 117.5 - (28)^2} \sqrt{8 \cdot 103.59 - (26.7)^2}}$$

$$r = \frac{875.20 - 747.60}{\sqrt{940 - 784} \sqrt{828.72 - 742.89}}$$

$$r = \frac{127.60}{\sqrt{156} \sqrt{115.83}}$$

$$r = \frac{127.60}{\sqrt{18,069.48}}$$

$$r = \frac{127.60}{134.42} = \underline{\underline{0.96}} \quad \text{Correlación positiva Coraleenite}$$