

Instituto Privado Mixto  
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Estadística

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MO

Profesora  
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5to. Año  
Perito en Admo.

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Calcule momentos de orden  $n=5$ , coeficientes  $B, B_2$

Puntos obtenidos en economía

| x   | f  | $f \cdot x$ | $(x - \bar{x})$ | $(x - \bar{x})^2$ | $(x - \bar{x})^3$ | $(x - \bar{x})^4$ | $f(x - \bar{x})^4$ | $f(x - \bar{x})^5$ |
|-----|----|-------------|-----------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| 60  | 3  | 180         | 21.67           | 469.59            | 1018.77           | 21053.74          | 66151.22           | 1433589.91         |
| 70  | 5  | 350         | 11.67           | 136.79            | 680.95            | 7946.60           | 92737.02           | 1082241.75         |
| 80  | 15 | 1180        | 1.67            | 2.79              | 4.66              | 69.90             | 116.70             | 194.85             |
| 90  | 9  | 810         | -8.33           | -69.39            | -624.51           | 5102.09           | -4814.82           | 40107.16           |
| 100 | 4  | 400         | -18.33          | -335.99           | -1343.96          | 24681.71          | -172888.44         | 1826937.81         |
|     | 36 | 2940        |                 | 763.4             | 8707.66           | 259302.48         |                    | 6780079.63         |
|     |    | 2940        |                 |                   |                   |                   |                    |                    |

$$\bar{x} = \frac{\sum f \cdot x}{\sum f} = \frac{2940}{36} = 81.67$$

No Modelar  
Tarea #6

## Momentos:

$$\text{Formula}$$

$$M_i = \frac{\sum Cx - \bar{x} \cdot n}{N}$$

$$M_2 = \frac{-163.10}{36} = 4.53 \quad M_3 = \frac{8,707.66}{36} = 241.88 \quad M_4 = \frac{259,502.48}{36} = 7,208.40$$

$$M_6 = \frac{6720079.63}{36} = 188,330.54$$

## Coefficientes B1, B2

$$B_1 = \frac{M_3^2}{M_2^3} = \frac{241.88^2}{4.53^3} = 58,505.94 = 629.37$$

$$B_2 = \frac{M_4}{M_2^2} = \frac{7,208.40}{4.53^2} = 357.29 \quad \text{Asptocurtica}$$

NO Modulin

