



**Estadística Descriptiva**

**Unidad 4**

**ALUMNO: Paulo Sergio Roblero Vázquez**

**Trabajo: Ejercicio**

**31 de julio de 2020**

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| Periodo<br>X | Petjada<br>Y | X <sup>2</sup> | Y <sup>2</sup>              | X · Y |
|--------------|--------------|----------------|-----------------------------|-------|
| 1            | 450          | 1              | 202500                      | 450   |
| 2            | 650          | 4              | 422500                      | 1300  |
| 3            | 700          | 9              | 490000                      | 2100  |
| 4            | 880          | 16             | 774400                      | 3520  |
| 5            | 980          | 25             | 960400                      | 4900  |
| 15           | 3660         | 55             | <del>289480</del><br>284980 | 17270 |

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$$b = \frac{(N)(\sum x)(y) - (\sum x)(\sum y)}{(N)(\sum x^2) - (\sum x)^2}$$

$$b = \frac{(5)(17270) - (15)(3660)}{(5)(55) - (15)^2}$$

$$b = \frac{61,350 - 54,900}{275 - 225}$$

$$b = \frac{6,450}{50}$$

$$b = 129 \text{ Qg}$$

$$a = \frac{\sum y - b(\sum x)}{N}$$

$$a = \frac{3,660 - (129)(15)}{5}$$

$$a = \frac{3,660 - 1935}{5}$$

$$a = \frac{1725}{5}$$

$$a = 345$$

$$y = a + b(x)$$

$$y_6 = 345 + 129(6)$$

$$y_6 = 345 + 774$$

$$y_6 = 1,119$$