



Estadística Descriptiva

Unidad 4

ALUMNO: Paulo Sergio Roblero Vázquez

Trabajo: Ejercicio

31 de julio de 2020

Paolo Sergio Roblero Uizguez.

| Periodo X | Petarda Y | X ² | Y ² | 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 | 289480 284980 | 17270 |

Paolo Sergio Roblero Uizguez

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

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

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

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

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

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

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

$$a = \frac{3,660 - 1,935}{5}$$

$$a = \frac{1,725}{5}$$

$$a = 345$$

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

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

$$y_6 = 345 + 774$$

$$y_6 = 1,119$$