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Materia: Estadística Descriptiva

Cuatrimestre: 3er. Cuatrimestre

Trabajo: Examen

Carlos Enrique Guillen Bolanos

Periodo	Demanda	x^2	y^2	periodo a_1
x	y			
1	1300	1	1,690,000	
2	1250	4	1,562,500	x4
3	1400	9	1,960,000	1300
4	1370	16	1,876,000	2500
5	1450	25	2,102,500	4200
6	1480	36	2,140,400	5480
7	1500	49	2,250,000	7,250
8	1350	64	2,402,500	8,880
36	11,300	204	$1,36 \times 10^7$	10,500
				12,400
				52,510

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

$$b = \frac{(11)(52,510) - (36)(11,300)}{(11)(204) - (36)^2} = \frac{65,790}{540}$$

$$b = \frac{(472,540) - (406,800)}{(1836) - (11296)} = \frac{121,83}{9}$$

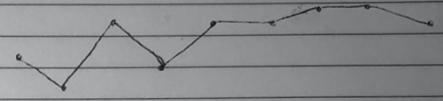
$$a = \frac{\sum y}{N} - b \cdot \bar{x}$$

$$a = \frac{(11,300) - (121,83)(36)}{11} = \frac{6,914,12}{11}$$

$$a = \frac{(11,300) - (9,385,86)}{11} = \frac{768,23}{11}$$

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20 000
18 000
16 000
14 000
12 000
10 000
8000
6000
4000
2000



1 2 3 4 5 0 4 8 9