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Materia: Estadísticas descriptivas

Cuatrimestro: 3er Cuatrimestre

Examen

# Raúl Edoardo Jiménez Gómez

Periodo X	Demanda Y	X <sup>2</sup>	Y <sup>2</sup>	X, Y
1	1300	1	1,690,000	1,300
2	1250	4	1,562,500	2,500
3	1400	9	1,960,000	4,200
4	1370	16	1,876,900	5,480
5	1450	25	2,102,500	7,250
6	1480	36	2,190,400	8,880
7	1500	49	2,250,000	10,500
8	1550	64	2,402,500	12,400
Σ 36	11,300	204	16,034,800	52,510

①

$$b = \frac{8 * 52,510 - 36 * 11,300}{8 * 204 - (36)^2}$$

$$b = \frac{420,080 - 406,800}{1632 - 1296}$$

$$b = \frac{13,280}{336}$$

$$b = 39.52$$

③

$$Y_{(1)} = 1234.66 + 39.52(1)$$

$$Y_{(2)} = 1234.66 + 355.68$$

$$Y_{(3)} = 1590.34$$

②

$$a = \frac{11,300 - 39.52 * 36}{8}$$

$$a = \frac{11,300 - 1422.72}{8}$$

$$a = \frac{9877.28}{8}$$

$$a = 1234.66$$

Raúl Eduardo Jiménez Gómez

(Y)

