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Nombre del trabajo: Examen

Materia: Estadística descriptiva

Grado: 3er cuatrimestre

Grupo: A

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Periodo X	Demanda Y	X ²	Y ²	X · Y
1	1,300	1	1,690,000	1,300
2	1,250	4	1,562,500	2,500
3	1,400	9	1,960,000	4,200
4	1,370	16	1,876,900	5,480
5	1,450	25	2,102,500	7,250
6	1,480	36	2,250,000	8,880
7	1,500	49	2,250,000	10,500
8	1,550	64	2,402,500	12,400
$\Sigma = 36$	11,300	204	16,034,800	52,510

$$a = 1,234.64$$

$$b = 39.52$$

$$Y = 1,590.34$$

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$$b = \frac{N \times \sum X \times Y - \sum X \times \sum Y}{N \times \sum x^2 - (\sum x)^2}$$

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

$$b = \frac{420\,080 - 406\,800}{1\,632 - 1\,296}$$

$$b = \frac{13\,280}{336} \quad b = 39.52 \triangle$$

$$a = \sum Y - b \times \sum x$$

$$a = 11\,300 - 39.52 \times 36$$

$$a = \frac{11\,300 - 1\,422.72}{8}$$

$$a = \frac{9\,877.28}{8} \quad a = 1\,234.66 \triangle$$

$$Y = a + b \cdot x$$

$$Y = 1\,234.66 + 39.52(9)$$

$$Y = 1\,234 + 355.68$$

$$Y = 1\,590.34$$

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