



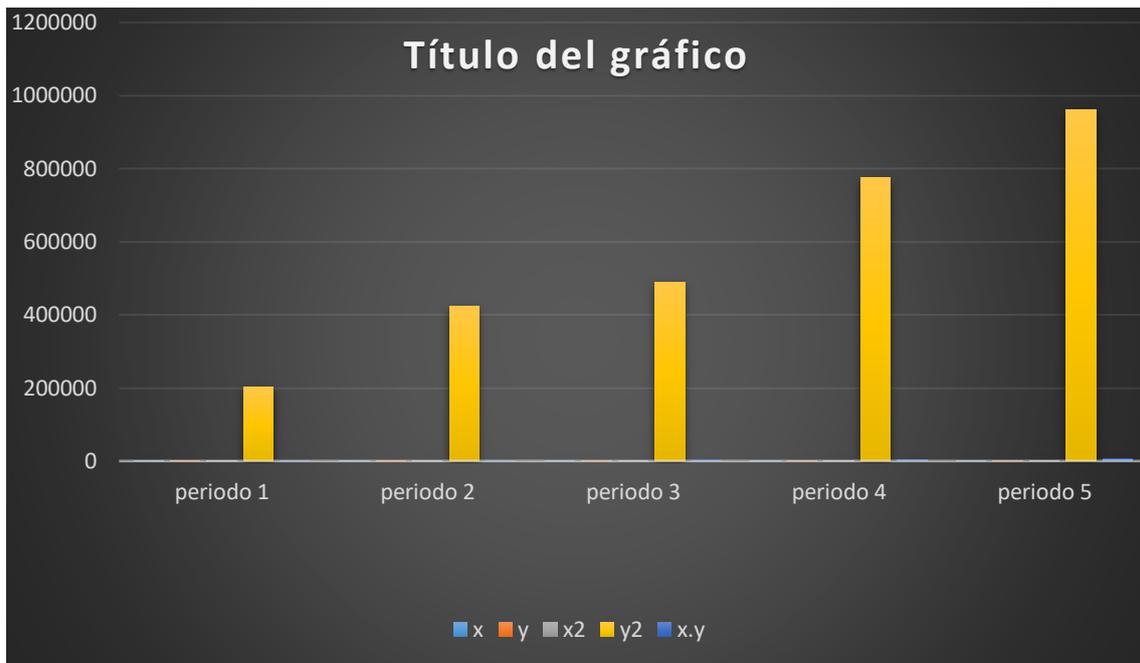
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Nombre de la materia: estadística descriptiva

Cuatrimestre: 3 Cuatri



Periodo X	Demanda Y	X <sup>2</sup>	Y <sup>2</sup>	X.Y
1	450	1	202,500	450
2	650	4	422,500	1300
3	700	9	490,000	2100
4	880	16	774,400	3520
5	980	25	960,400	4900
15	3660	55	2,849,800	12,270



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

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

$$b = \frac{(6)(12,270) - (15)(3660)}{(6)(55) - (15)^2}$$

$$b = \frac{73,620 - 54,900}{330 - 225}$$

$$b = \frac{18,720}{105}$$

$$b = 178.28$$

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

$$a = \frac{(3660) - (178.28)(15)}{6}$$

$$a = \frac{(3660) - (2674.2)}{6}$$

$$a = 164.3$$

Yours truly,  
Luis Fernando D.B