

**Nombre del alumno:** Carlos Enrique Guillen Bolaños

**Nombre del profesor:** Jorge Enrique Albores

**Materia:** Estadística Descriptiva

**Cuatrimestre:** 3er. Cuatrimestre

**Trabajo:** Ejercicios

Periodo X	Demanda Y	X <sup>2</sup>	Y <sup>2</sup>	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

SUMATORIA

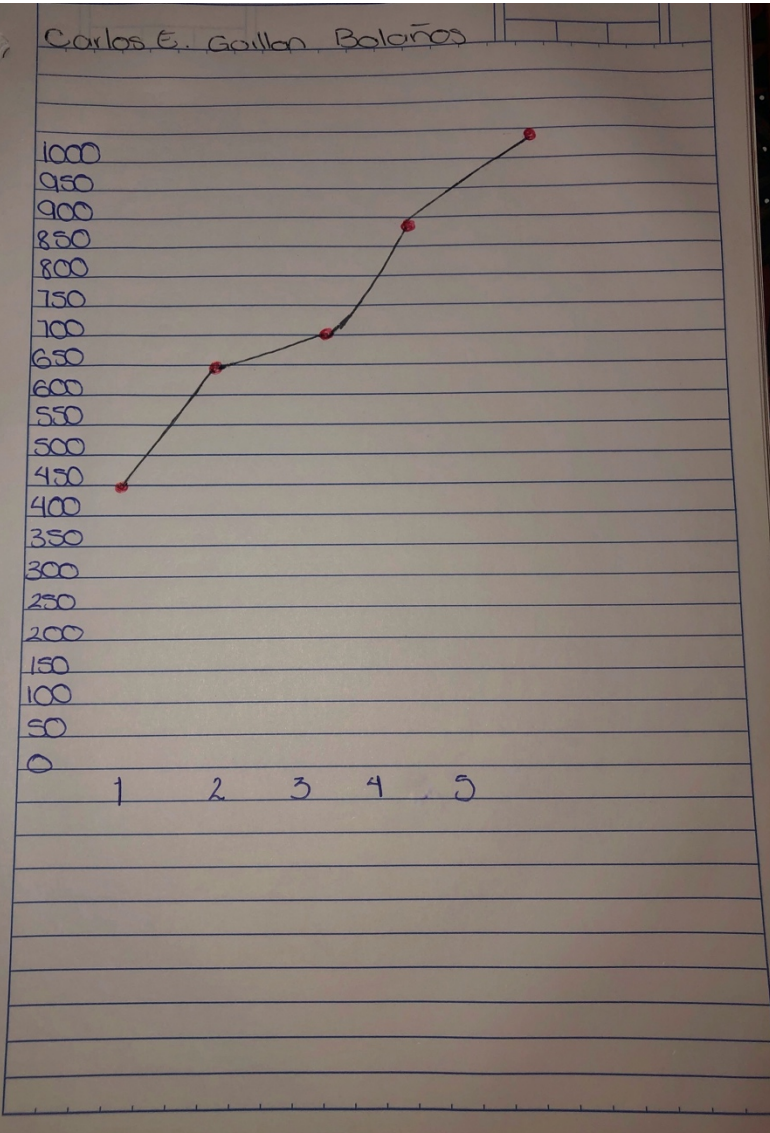
15

3660

55

2849800

12270



Carlos E. Guillen Bolaños

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

$$b = \frac{5 \times 12,270 - 15 \times 3,660}{5 \times 55 - 15^2}$$

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

$$b = \frac{6450}{50} \quad b = \underline{\underline{129}}$$


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$$a = \frac{\sum Y - b \times \sum X}{N}$$

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

$$a = \frac{3660 - 1935}{5}$$

$$a = \frac{1725}{5} \quad a = \underline{\underline{345}}$$


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$$Y = a + b \times X$$

$$Y(1) = 345 + 129(1)$$

$$Y(2) = 345 + 258$$

$$Y(3) = 345 + 387$$