

Alejandra Mendoza

Tarea No. 6

Lagartijas X	Sentadillas Y	X ²	Y ²	XY
40	43	1,600	1,849	1,720
40	48	1,600	2,304	1,920
55	54	3,025	2,916	2,970
35	32	1,225	1,024	1,120
52	45	2,704	2,025	2,340
30	35	900	1,225	1,050
252	257	11,054	11,343	11,120

$$a = \frac{\sum x^2 \sum y - \sum x \sum (xy)}{N \sum x^2 - (\sum x)^2} \quad a = \frac{11,054 \cdot 257 - 252 \cdot 11,120}{6 \cdot 11,054 - 252^2}$$

$$a = \frac{2,840,878 - 2,802,240}{66,324 - 63,504} \quad a = \frac{38,638}{2,820}$$

$$a = 13.70$$

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$$b = \frac{N \sum(xy) - \sum x \sum y}{N \sum x^2 - (\sum x)^2} \quad b = \frac{6 \cdot 11,120 - 252 \cdot 257}{6 \cdot 11,054 - 252^2}$$

$$b = \frac{66,720 - 64,764}{66,324 - 63,504} \quad b = \frac{1,956}{2,820}$$

$$b = 0.69$$