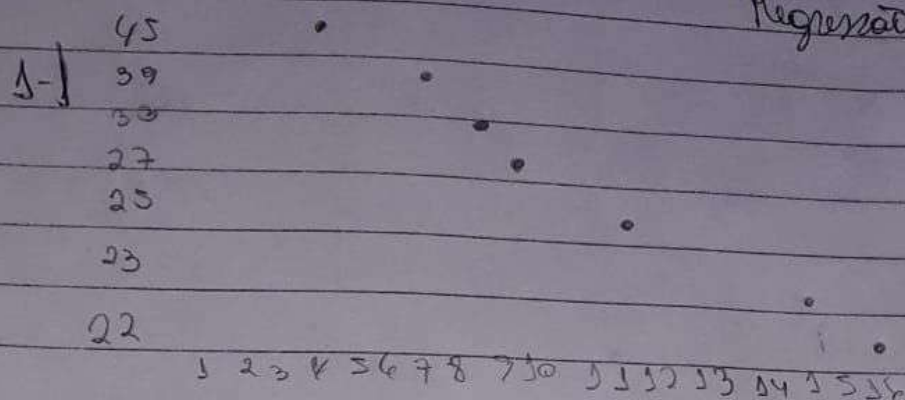


Estadística - Correlação e Regressão



X	Y	X ²	Y ²	X · Y
Σ X = 70	Σ Y = 254	Σ X ² = 832	Σ Y ² = 7002	Σ XY = 1932

$$r = \frac{(7 \cdot 1932) - 70 \cdot 254}{\sqrt{7 \cdot 832 - 60^2} \cdot \sqrt{7 \cdot 7002 - 12592}}$$

$$r = \frac{13524 - 17780}{\sqrt{5694 - 3600} \cdot \sqrt{49014 - 45796}}$$

28 56,727

$r = 0,93$

$$\frac{-1,456}{5,588}$$

$r = 0,93$

S T O O S S O
L M M I V S O

X: 3, 3, 3, 3, 3, 3



2-1 $y = 2x - 7$

$y = 2 \cdot 3 - 7$

$y = 2 - 7$

$y = -5$

$y = 2 \cdot 3 - 7$

$y = -5$

$y = 2 \cdot 3 - 7$

$y = 3$

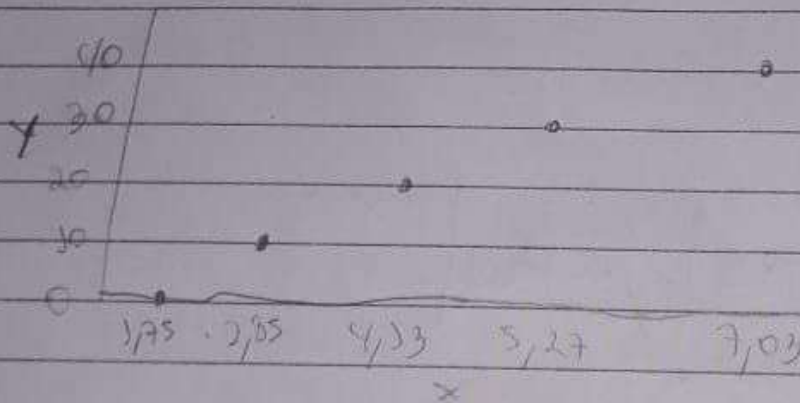
$y = 13$

$y = 2 \cdot 10 - 7$

$= 20 - 7$

$y = 13$

3-1



x	y	y ²	x ²	xy
21,03	300	90000	88,328	550,4

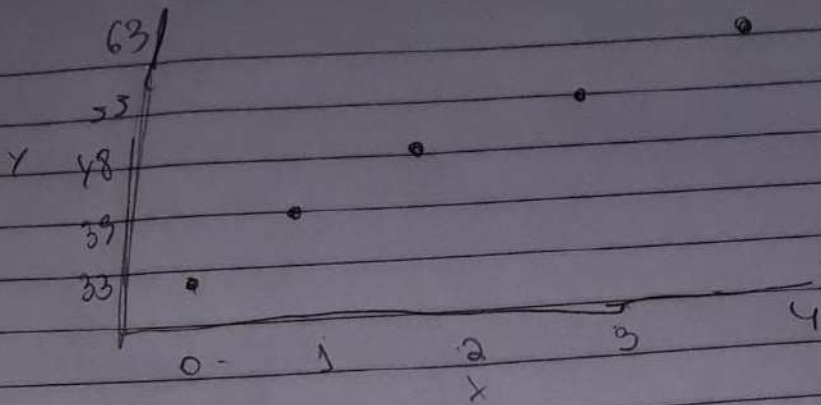
$a = \frac{5 \cdot 550,4 - 21,03 \cdot 300}{7 \cdot 3000 - 88,328}$

$a = \frac{2752 - 21,03 \cdot 300}{7 \cdot 3000 - 88,328}$

$\frac{2752 - 6309}{20955} = -18,262$

$b = 42,06 - (-18,262) \cdot 20$
 $= 42,06 - 365,24$
 $= -323,18$

5089 1520 2304 5025 3869
 0 1 4 9 16
 9218 27225 63567
 T Q Q S S D
 L M M J V S D



x	y	y ²	x ²	xy
10	238	11908	30	103466

$$a = \frac{(5 \cdot 103466) - 10 \cdot 238}{(5 \cdot 30) - 100} \rightarrow \frac{507330 - 2380}{50}$$

$$\frac{504950}{50} \rightarrow 10099$$

$$b = \frac{47,4 - 10099 \cdot 2}{20,598} \rightarrow 27,402$$