

1)

X	Y
1	3.8
2	4.5
3	5
4	5.3
5	5.6

log
→

X	Y	X X	X Y
0	0.579	0	0
0.301	0.653	0.099	0.2
0.477	0.70	0.22	0.33
0.602	0.724	0.36	0.44
0.699	0.748	0.488	0.52

Suma

2.079	3.404	1.169	1.489
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Media

0.415	0.6808
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$$m = \frac{5 \cdot 1.489 - 2.079 \cdot 3.404}{5 \cdot 1.169 - (2.079^2)} = 0.241$$

$$b = 0.6808 - 0.241 \cdot 0.415 = 0.5807$$

$$\alpha = 10^b = 3.808$$

$$\beta = b$$

$$y = 3.807 \times 10^{0.5807}$$

3)

$$X = 5,25$$

	X	Y
	1	1
	3	1,05
X_0	5	1,2
$\rightarrow X_1$	7	1,25
X_2	9	1,4

$$f(5,25) = \frac{5,25 - 7}{5 - 7} (1,2) + \frac{5,25 - 5}{7 - 5} (1,25) = 1,206$$

$$f_2(5,25) = \frac{(5,25 - 7)(5,25 - 9)}{(5 - 7)(5 - 9)} (1,206) + \frac{(5,25 - 5)(5 - 9)}{(7 - 5)(7 - 9)} (1,25)$$

$$+ \frac{(5,25 - 5)(5,25 - 7)}{(9 - 5)(9 - 7)} (1,4) = 1,2203$$

4)

