Yohanes Dimas Pratama

A11.2021.13254 - A11.442U

Tugas Pertemuan 12

~ Regresi ~

n	x	y	xy	x^2	y^2
1	5	85	425	25	7225
2	4	103	412	16	10609
3	6	70	420	36	4900
4	5	82	410	25	6724
5	5	89	445	25	7921
6	5	98	490	25	9604
7	6	66	396	36	4356
8	6	95	570	36	9025
9	2	169	338	4	28561
10	7	70	490	49	4900
11	7	48	336	49	2304
Total	58	975	4732	326	96129

$\bar{x} = \frac{58}{11} = 5.273$

$\bar{y} = \frac{975}{11} = 88.64$

$\beta = \frac{n(\sum xy) - (\sum x)(\sum y)}{n(\sum x^2) - (\sum x)^2} = \frac{11(4372) - (58)(975)}{11(326) - (58)^2} = \frac{52052 - 56550}{3586 - 3364} = \frac{-4498}{222} = -20.261$

$\alpha = \bar{y} - b\bar{x} = 88.64 - (-20.2612)(5.273) = 88.64 + 106.88 = 195.52$

$y = \alpha + \beta x = 195.52 - 20.2612x$