

Nama : Andri Firman Saputra

No.

Date

NIM : 201011402125

Statistik Lanjut

Tugas Pemahaman dan review

Ujilah data di bawah ini apakah berdistribusi normal atau tidak

Nilai	f_i	x_i	x_i^2	$f_i \cdot x_i$	$f_i \cdot x_i^2$
50-59	22	54,5	2970,25	1.199	505.345,5
60-69	16	64,5	4160,25	1032	66.564
70-79	7	74,5	5550,25	521,5	38851,75
80-89	2	84,5	7140,25	169	14.280,5
90-99	3	94,5	8930,25	283,5	84390,625
Jumlah	50			3.205	1.468.950,375

$$n = 50$$

$$\bar{x} = \frac{\sum f_i x_i}{\sum f_i}$$

$$\bar{x} = \frac{3.205}{50}$$

$$\bar{x} = 64,1$$

$$SD = \sqrt{\frac{\sum f_i x_i^2}{n} - \left(\frac{\sum f_i x_i}{n} \right)^2}$$

$$= \sqrt{\frac{1.468.950,375}{50} - \left(\frac{3.205}{50} \right)^2}$$

$$= \sqrt{29.379,015 - 4108,81}$$

$$= \sqrt{25.270,205}$$

$$= 158,96605$$