Assignment 16.21287

Arranging the given data in form of a Table

x	$\bar{x}$	$x-\bar{x}$	$(x-\bar{x})^2$
3	58.5	−55.5	3080.25
21	58.5	−37.5	1406.25
98	58.5	39.5	1560.25
203	58.5	144.5	20880.25
17	58.5	−41.5	1722.25
9	58.5	−49.5	2450.25

Calculating mean and inserting in the table.

$$\Rightarrow \frac{\sum x_i}{N} \Rightarrow \frac{3+21+98+203+17+9}{6} = 58.5$$

$$\text{Variance} = \frac{\sum (x-\bar{x})^2}{N} \Rightarrow \frac{3080.25+1406.25+1560.25+20880.25+1722.25+2450.25}{6}$$

$$\Rightarrow 5183.25$$