## Assignment 4.1

Your survey households in your area to find the average vert they are paying. Find the standard deviation from the following data

\$1550, \$1700, \$900, \$850, \$1000, \$ 050.

Standard deviation 
$$\sigma = \sqrt{\frac{\sum_{i=1}^{N} (x-x_i)^2}{N}}$$

I is given samples, I is morar of given samples

$$\bar{\chi} = \frac{\text{sum of all samples}}{\text{total NO of samples}} = \frac{1550 + 1700 + 900 + 850 + 1000 + 950}{6}$$

$$= \frac{6950}{6} \Rightarrow \bar{\chi} = 1158.333$$

			2
1	2	72-72	(9x-72)
t	1550	391-667	153402.8
1	1700	541.667	293402.8
	900	-258 333	66736-11
٠	850	-308.333	95069.49
	1000	-158.377	25069.44
	950	-208.333	43 402-78
	·		

$$= 677083.3$$

$$= (3-7)^{2} = 677083.7 = 112847.2$$

The standard divustron of howsholds survey is 375.9274