MAT 1272 classwork 5 - Standard Deviation Worksheet

Data Set #1

x	x-x	$\left(x-x\right)^2$
79		
79		
80		
80		
80		
80		
81		
81		
	Total	

Population standard deviation:

variance =
$$\frac{total}{n} = \sigma^2 =$$

standard deviation = $\sqrt{\sigma^2} = \sigma =$ _______

Sample standard deviation:

variance =
$$\frac{total}{n-1} = s^2 =$$

standard deviation = $\sqrt{s^2} = s =$ ______

Data Set #2

Mean: $\bar{x} =$

x	x-x	$\left(x-\overline{x}\right)^2$
70		
70		
70		
70		
90		
90		
90		
90		
	Total	
		•

Population standard deviation:

variance =
$$\frac{total}{n} = \sigma^2 =$$

standard deviation = $\sqrt{\sigma^2} = \sigma =$ ______

Sample standard deviation:

variance =
$$\frac{total}{n-1} = s^2 =$$

standard deviation = $\sqrt{s^2} = s =$ _____

Data Set #3

Sample data: 54, 65, 68, 76, 77, 83, 90, 92, 95, 100 mean: $\bar{x} = \underline{\hspace{1cm}}$

standard deviation: s =_____ variance: $s^2 =$ _____