

**Solution Manual A Friendly Introduction to Numerical Analysis 1st Edition
Brian Bradie**

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SOLUTIONS

CHAPTER 1 GETTING STARTED

1.1 ALGORITHMS

1. Use the statistics algorithm from the text to compute the mean, $\bar{x}$, and the standard deviation, s , of the data set: $-5, -3, 2, -2, 1$.

The inputs are

$$x_1 = -5, \quad x_2 = -3, \quad x_3 = 2, \quad x_4 = -2, \quad x_5 = 1, \quad \text{and} \quad n = 5.$$

Working sequentially through the steps of the algorithm, we find

STEP 1:	$x_{\text{mean}} = 0, \quad x2_{\text{mean}} = 0$
STEP 2:	$i = 1: \quad x_{\text{mean}} = 0 + (-5) = -5; \quad x2_{\text{mean}} = 0 + (-5)^2 = 25$
	$i = 2: \quad x_{\text{mean}} = -5 + (-3) = -8; \quad x2_{\text{mean}} = 25 + (-3)^2 = 34$
	$i = 3: \quad x_{\text{mean}} = -8 + 2 = -6; \quad x2_{\text{mean}} = 34 + 2^2 = 38$
	$i = 4: \quad x_{\text{mean}} = -6 + (-2) = -8; \quad x2_{\text{mean}} = 38 + (-2)^2 = 42$
	$i = 5: \quad x_{\text{mean}} = -8 + 1 = -7; \quad x2_{\text{mean}} = 42 + 1^2 = 43$
STEP 3:	$\bar{x}_{\text{mean}} = -7/5 = -1.4$
STEP 4:	$s = \sqrt{(5(43) - (-7)^2)/5(5-1)} = 2.840872$
OUTPUT:	$\bar{x}_{\text{mean}} = -1.4$ and $s = 2.840872$

Thus, for the data set consisting of the five numbers $-5, -3, 2, -2$, and 1 , the mean is $\bar{x} = -1.4$ and the standard deviation is $s = 2.840872$.

2. With $n = 4$, use the trapezoidal rule algorithm from the text to approximate the value of the definite integral

$$\int_0^1 \frac{1}{1+x^2} dx.$$

Matching this specific problem to the general pattern $\int_a^b f(x) dx$, we see that $a = 0$, $b = 1$ and $f(x) = \frac{1}{1+x^2}$. With $n = 4$, the trapezoidal rule algorithm yields

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James F. Epperson



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