

**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:	$\bar{x}_{\text{mean}} = -7/5, \quad = -1.4$
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

# Friendly Introduction To Numerical Analysis Solution Manual

**Bradie**



## **Friendly Introduction To Numerical Analysis Solution Manual:**

## **Friendly Introduction To Numerical Analysis Solution Manual** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Friendly Introduction To Numerical Analysis Solution Manual**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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