

1. (25 points) Use the limit definition of the definite integral and the sum formulas to compute

$$\int_1^3 \left[1 - x + \frac{x^2}{2} \right] dx.$$

Check your answer by using the Fundamental Theorem of Calculus.

Solution: The limit definition of the definite integral of a function $f(x)$ over the interval $[a, b]$ is

$$\int_a^b f(x) dx = \lim_{n \rightarrow \infty} \sum_{i=1}^n f(x_i^*) \Delta x$$

where $\Delta x = \frac{b-a}{n}$, $x_i = a + i\Delta x$ and x_i^* is some number between x_{i-1} and x_i for $i = 1, 2, \dots, n$. In our situation, our function is $f(x) = 1 - x + \frac{x^2}{2}$ and our interval is $[1, 3]$, so $\Delta x = \frac{3-1}{n} = \frac{2}{n}$ and $x_i = 1 + i\frac{2}{n} = 1 + \frac{2i}{n}$. Since f is continuous on $[1, 3]$, the integral exists, so we may freely take $x_i^* = x_i$ for $i = 1, 2, \dots, n$ and we have

$$\begin{aligned} \int_1^3 \left[1 - x + \frac{x^2}{2} \right] dx &= \lim_{n \rightarrow \infty} \sum_{i=1}^n \left[1 - x_i + \frac{x_i^2}{2} \right] \Delta x \\ &= \lim_{n \rightarrow \infty} \sum_{i=1}^n \left[1 - \left(1 + \frac{2i}{n} \right) + \frac{1}{2} \left(1 + \frac{2i}{n} \right)^2 \right] \frac{2}{n} \\ &= \lim_{n \rightarrow \infty} \frac{2}{n} \sum_{i=1}^n \left[-\frac{2i}{n} + \frac{1}{2} \left(1 + 2\frac{2i}{n} + \frac{4i^2}{n^2} \right) \right] \\ &= \lim_{n \rightarrow \infty} \frac{2}{n} \sum_{i=1}^n \left[\frac{1}{2} + \frac{2i^2}{n^2} \right] \\ &= \lim_{n \rightarrow \infty} \frac{2}{n} \left[\frac{1}{2} \left(\sum_{i=1}^n 1 \right) + \frac{2}{n^2} \left(\sum_{i=1}^n i^2 \right) \right] \\ &= \lim_{n \rightarrow \infty} \left[\frac{1}{n} (n) + \frac{4}{n^3} \left(\frac{n(n+1)(2n+1)}{6} \right) \right] \\ &= \lim_{n \rightarrow \infty} \left[1 + \frac{4}{6} \left(\frac{n+1}{n} \right) \left(\frac{2n+1}{n} \right) \right] \\ &= 1 + \frac{2}{3} \left(\frac{1}{1} \right) \left(\frac{2}{1} \right) = \frac{7}{3}. \end{aligned}$$

Now, using the **Fundamental Theorem of Calculus, Part II** (a.k.a., the *Evaluation Theorem*), we have

$$\int_1^3 \left[1 - x + \frac{1}{2}x^2 \right] dx = \left[x - \frac{x^2}{2} + \frac{1}{2} \frac{x^3}{3} \right]_1^3 = \left[\left(3 - \frac{9}{2} + \frac{27}{6} \right) - \left(1 - \frac{1}{2} + \frac{1}{6} \right) \right] = \frac{7}{3}.$$

As it should be, the two results are the same.

2. (25 points) Suppose f is a continuous function and that $\int_0^x f(t) dt = \sin(x/2)$.

(a) Show that $\int_a^x f(t) dt = \sin(x/2) - 1$.

Solution: By the **Fundamental Theorem of Calculus, Part I**, any function of the form $F(x) = \int_a^x f(t) dt$ is an *antiderivative* of $f(x)$. So, in our case, we are given

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Annual Catalogue United States Air Force Academy, 1985 *United States Air Force Academy* United States Air Force Academy, **A Primer for Calculus** Leonard Irvin Holder, 1993 Since the first edition of PRIMER FOR CALCULUS was published in 1978 Holder has consistently addressed the idea that students don't fail calculus they fail the algebra His clarity of exposition and numerous exercises help students develop their ability to do the algebraic manipulations that they will encounter in calculus He uses chapter openers taken from calculus texts illustrate the idea or technique to be studied in each chapter

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Instructor's Solutions Manual Bradley W. Jackson, 1990

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