

Problem 5 (2014)

Let f be a function on $[0, 2\pi]$ defined by $f(x) = \cos(x)$.
(a) Let R be the region bounded by the graph of f and the x -axis.
(b) Let S be the region bounded by the graph of f and the x -axis.

(a) Find the area of the region R using the definite integral.
(b) Find the average velocity of f on $[0, 2\pi]$.

The average velocity is $\frac{1}{b-a} \int_a^b f(x) dx$

Here, $a=0$, $b=2\pi$ and $f(x) = \cos(x)$

$$\text{Average velocity} = \frac{1}{2\pi - 0} \int_0^{2\pi} \cos(x) dx$$

$$= \frac{1}{2\pi} \int_0^{2\pi} \cos(x) dx = \frac{1}{2\pi} [\sin(x)]_0^{2\pi}$$

$$= \frac{1}{2\pi} \left[\frac{\sin(2\pi)}{2\pi} - \frac{\sin(0)}{2\pi} \right]$$

$$= \frac{1}{2\pi} \left[\frac{0}{2\pi} - \frac{0}{2\pi} \right] = \frac{0}{2\pi} = \frac{0}{2\pi} = 0 \text{ (m/s)}$$

Using calculus, the area of R is $\frac{1}{2} \int_a^b f(x) dx$

(b) The instantaneous velocity of f is given by $f'(x) = -\sin(x)$.
(c) Let S be the region bounded by the graph of f and the x -axis.

(c) Find the intervals where f is increasing or decreasing.
(d) Find the intervals where f is concave up or concave down.

$$\begin{aligned} & \text{Increasing: } f'(x) > 0 \Rightarrow -\sin(x) > 0 \Rightarrow \sin(x) < 0 \Rightarrow x \in (\pi, 2\pi) \\ & \text{Decreasing: } f'(x) < 0 \Rightarrow -\sin(x) < 0 \Rightarrow \sin(x) > 0 \Rightarrow x \in (0, \pi) \end{aligned}$$

So on intervals $(0, \pi)$ and $(\pi, 2\pi)$, the particle is moving right.

Flvs Algebra Module 6 Db

Rosina Ehmann



Flvs Algebra Module 6 Db:

The book delves into Flvs Algebra Module 6 DbA. Flvs Algebra Module 6 DbA is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Flvs Algebra Module 6 DbA, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Flvs Algebra Module 6 DbA
 - Chapter 2: Essential Elements of Flvs Algebra Module 6 DbA
 - Chapter 3: Flvs Algebra Module 6 DbA in Everyday Life
 - Chapter 4: Flvs Algebra Module 6 DbA in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Flvs Algebra Module 6 DbA. The first chapter will explore what Flvs Algebra Module 6 DbA is, why Flvs Algebra Module 6 DbA is vital, and how to effectively learn about Flvs Algebra Module 6 DbA.
3. In chapter 2, this book will delve into the foundational concepts of Flvs Algebra Module 6 DbA. This chapter will elucidate the essential principles that must be understood to grasp Flvs Algebra Module 6 DbA in its entirety.
4. In chapter 3, this book will examine the practical applications of Flvs Algebra Module 6 DbA in daily life. This chapter will showcase real-world examples of how Flvs Algebra Module 6 DbA can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Flvs Algebra Module 6 DbA in specific contexts. This chapter will explore how Flvs Algebra Module 6 DbA is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Flvs Algebra Module 6 DbA. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Flvs Algebra Module 6 DbA.

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