

Example

Find $\frac{dy}{dx}$ if $y^2 = x$

-To solve, differentiate both sides of the equation with respect to x , treating y as a differentiable function of x .

$$y^2 = x$$

$$2y \frac{dy}{dx} = 1 \qquad \frac{d}{dx}(y^2) = \frac{d}{dy}(y^2) \cdot \frac{dy}{dx}$$

$$\frac{dy}{dx} = \frac{1}{2y}$$

-This is helpful in this case.

$$y^2 = x$$

$$y = \sqrt{x}$$

-This graph has 2 slopes for $x = 4$ one at $(4,2)$ and $(4,-2)$.

-Here our derivative is in terms of y so we can use y_1 and y_2 to find BOTH derivatives.

$$\frac{1}{2y_1} = \frac{1}{4} \qquad \frac{1}{2y_2} = -\frac{1}{4}$$

Example-Finding Slope of a Circle

Find the slope of the circle $x^2 + y^2 = 25$ at $(3,-4)$

-To graph this we would need to solve for y :

$$y_1 = \sqrt{25 - x^2} \qquad y_2 = -\sqrt{25 - x^2}$$

Advanced Placement Test In Calculus

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Advanced Placement Test In Calculus:

The book delves into Advanced Placement Test In Calculus. Advanced Placement Test In Calculus is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Advanced Placement Test In Calculus, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Advanced Placement Test In Calculus
 - Chapter 2: Essential Elements of Advanced Placement Test In Calculus
 - Chapter 3: Advanced Placement Test In Calculus in Everyday Life
 - Chapter 4: Advanced Placement Test In Calculus in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Advanced Placement Test In Calculus. The first chapter will explore what Advanced Placement Test In Calculus is, why Advanced Placement Test In Calculus is vital, and how to effectively learn about Advanced Placement Test In Calculus.
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4. In chapter 3, this book will examine the practical applications of Advanced Placement Test In Calculus in daily life. This chapter will showcase real-world examples of how Advanced Placement Test In Calculus can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Advanced Placement Test In Calculus in specific contexts. This chapter will explore how Advanced Placement Test In Calculus is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Advanced Placement Test In Calculus. This 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. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Advanced Placement Test In Calculus.

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