

Evaluating Limits Worksheet

Evaluate the following limits without using a calculator.

1) $\lim_{x \rightarrow 3} \frac{2x^2 - 5x - 3}{x - 3}$

$$= \lim_{x \rightarrow 3} \frac{(2x+1)(x-3)}{(x-3)}$$

$$= \lim_{x \rightarrow 3} 2x+1 = 2(3)+1 = \boxed{7}$$

2) $\lim_{x \rightarrow 2} \frac{x^2 - 16}{x - 2}$

$$= \lim_{x \rightarrow 2} \frac{(x^2+4)(x+2)(x-2)}{(x-2)}$$

$$= \lim_{x \rightarrow 2} (x^2+4)(x+2) = (2^2+4)(2+2) = 8 \cdot 4 = \boxed{32}$$

3) $\lim_{x \rightarrow -1} \frac{x^4 + 3x^3 - x^2 + x + 4}{x + 1}$

$$= \lim_{x \rightarrow -1} \frac{(x+1)(x^3 + 2x^2 - 3x + 4)}{x+1}$$

$$= \lim_{x \rightarrow -1} x^3 + 2x^2 - 3x + 4 = -1 + 2 + 3 + 4 = \boxed{8}$$

4) $\lim_{x \rightarrow 0} \frac{\sqrt{x+4} - 2}{x}$

$$= \lim_{x \rightarrow 0} \left(\frac{\sqrt{x+4} - 2}{x} \right) \left(\frac{\sqrt{x+4} + 2}{\sqrt{x+4} + 2} \right)$$

$$= \lim_{x \rightarrow 0} \frac{x+4 - 4}{x(\sqrt{x+4} + 2)}$$

$$\begin{aligned} & \lim_{x \rightarrow 0} \frac{x}{x(\sqrt{x+4} + 2)} \\ &= \lim_{x \rightarrow 0} \frac{1}{\sqrt{x+4} + 2} \\ &= \frac{1}{\sqrt{4} + 2} = \boxed{\frac{1}{4}} \end{aligned}$$

5) $\lim_{x \rightarrow 3} \frac{\sqrt{x+6} - x}{x - 3}$

$$= \lim_{x \rightarrow 3} \frac{(\sqrt{x+6} - x)(\sqrt{x+6} + x)}{(x-3)(\sqrt{x+6} + x)} = \lim_{x \rightarrow 3} \frac{x+6 - x^2}{(x-3)(\sqrt{x+6} + x)}$$

$$= \lim_{x \rightarrow 3} \frac{-(x+2)}{\sqrt{x+6} + x} = \frac{-(3+2)}{\sqrt{2+6} + 3} = \boxed{\frac{-5}{6}}$$

(one method)

factor $2x^2 - 5x - 3$

$$2x^2 + 1x - 6x - 3$$

$$x(2x+1) - 3(2x+1)$$

$$(2x+1)(x-3)$$

factor $x^4 - 16$

$$(x^2+4)(x^2-4)$$

$$(x^2+4)(x+2)(x-2)$$

polynomial long division

$$\begin{array}{r} x^3 + 2x^2 - 3x + 4 \\ x+1 \overline{) x^3 + 3x^2 - x^2 + x + 4} \\ \underline{-(x^3 + x^2)} \\ 2x^2 - x^2 \\ \underline{-(2x^2 + 2x)} \\ -3x^2 + x \\ \underline{-(-3x^2 - 3x)} \\ 4x + 4 \\ \underline{-(4x + 4)} \\ 0 \end{array}$$

Pre Calculus Solutions

Katrin Zwirgmaier



Pre Calculus Solutions:

The book delves into Pre Calculus Solutions. Pre Calculus Solutions is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Pre Calculus Solutions, encompassing both the fundamentals and more intricate discussions.

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

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