

ALGEBRA 2

SYNTHETIC SUBSTITUTION

BINDER NOTES

SYNTHETIC SUBSTITUTION

Synthetic substitution

A strategy for substituting a function's value when the degree is greater than 2.

If $f(x) = 3x^3 + 5x^2 + 3x + 4$, find $f(2)$.

Find $f(2)$ is the remainder when the polynomial is divided by $x - 2$.

Original method of substitution

$$f(2) = 3(2)^3 + 5(2)^2 + 3(2) + 4$$

$$f(2) = 24 + 20 + 6 + 4$$

$$20 + 30 = 50$$

New method of synthetic substitution

$$\begin{array}{r|rrrrr} 2 & 3 & 5 & 3 & 4 & 0 \\ & & 6 & 16 & 38 & 80 \\ \hline & 3 & 11 & 19 & 42 & 80 \end{array}$$

$$f(2) = 80$$

Original method

$$f(4) = 3(4)^3 + 5(4)^2 + 3(4) + 4$$

$$f(4) = 192 + 80 + 12 + 4$$

$$f(4) = 288 + 92 = 380$$

$$f(4) = 380$$

Using the synthetic method

$$\begin{array}{r|rrrrr} 4 & 3 & 5 & 3 & 4 & 0 \\ & & 12 & 28 & 108 & 436 \\ \hline & 3 & 17 & 31 & 112 & 436 \end{array}$$

$$f(4) = 436$$

For each function, use synthetic substitution to find $f(2)$, $f(4)$, and $f(6)$.

$$f(x) = x^3 + 3x^2 + 3x + 4$$

$$\begin{array}{r|rrrrr} 2 & 1 & 3 & 3 & 4 & 0 \\ & & 2 & 10 & 24 & 50 \\ \hline & 1 & 5 & 13 & 28 & 50 \end{array}$$

$$f(2) = 50$$

$$\begin{array}{r|rrrrr} 4 & 1 & 3 & 3 & 4 & 0 \\ & & 4 & 16 & 72 & 292 \\ \hline & 1 & 7 & 19 & 76 & 292 \end{array}$$

$$f(4) = 292$$

$$\begin{array}{r|rrrrr} 6 & 1 & 3 & 3 & 4 & 0 \\ & & 6 & 24 & 150 & 900 \\ \hline & 1 & 9 & 27 & 154 & 900 \end{array}$$

$$f(6) = 900$$

SYNTHETIC SUBSTITUTION

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$$\begin{array}{r|rrrrr} 2 & 3 & 5 & 3 & 4 & 0 \\ & & 6 & 16 & 38 & 80 \\ \hline & 3 & 11 & 19 & 42 & 80 \end{array}$$

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$$f(4) = 436$$

$$f(6) = 900$$

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Synthetic Substitution Worksheet

Annelies Wilder-Smith

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

Synthetic Substitution Worksheet:

This book delves into Synthetic Substitution Worksheet. Synthetic Substitution Worksheet 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 Synthetic Substitution Worksheet, encompassing both the fundamentals and more intricate discussions.

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

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