

ALGEBRA 2

SYNTHETIC SUBSTITUTION

BINDER NOTES

SYNTHETIC SUBSTITUTION

Synthetic substitution

A strategy for evaluating 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) 4 substitutions

$$f(2) = 3(2)^3 + 5(2)^2 + 3(2) + 4 = 52$$

$$f(2) = 3(8) + 5(4) + 3(2) + 4 = 52$$

$$20 + 8 + 6 + 4 = 38$$

New method 4 synthetic substitution

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

$$f(2) = 52$$

Find $f(4)$

Using the synthetic method find $f(4)$

$$f(4) = 3(4)^3 + 5(4)^2 + 3(4) + 4 = 176$$

$$f(4) = 3(64) + 5(16) + 3(4) + 4 = 176$$

$$f(4) = 3(256) + 20(16) + 12(4) + 4 = 176$$

$$f(4) = 176$$

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

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

$$\begin{array}{r|rrrrr} 2 & 1 & 3 & 3 & 4 & 0 \\ & & 2 & 10 & 21 & 46 \\ \hline & 1 & 5 & 13 & 25 & 46 \end{array}$$

$$f(2) = 47$$

$$f(4) = 117$$

$$f(6) = 244$$

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$$f(2) = 52$$

$$\begin{array}{r|rrrrr} 4 & 3 & 5 & 3 & 4 & 0 \\ & & 12 & 29 & 119 & 480 \\ \hline & 3 & 17 & 32 & 123 & 480 \end{array}$$

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front

back



Synthetic Substitution Worksheet

Rachel S Tattersall



Synthetic Substitution Worksheet:

Synthetic Substitution Worksheet Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Synthetic Substitution Worksheet**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Synthetic Substitution Worksheet

1. Understanding the eBook Synthetic Substitution Worksheet
 - The Rise of Digital Reading Synthetic Substitution Worksheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Synthetic Substitution Worksheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Synthetic Substitution Worksheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Synthetic Substitution Worksheet
 - Personalized Recommendations
 - Synthetic Substitution Worksheet User Reviews and Ratings
 - Synthetic Substitution Worksheet and Bestseller Lists
5. Accessing Synthetic Substitution Worksheet Free and Paid eBooks

- Synthetic Substitution Worksheet Public Domain eBooks
- Synthetic Substitution Worksheet eBook Subscription Services
- Synthetic Substitution Worksheet Budget-Friendly Options
- 6. Navigating Synthetic Substitution Worksheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Synthetic Substitution Worksheet Compatibility with Devices
 - Synthetic Substitution Worksheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Synthetic Substitution Worksheet
 - Highlighting and Note-Taking Synthetic Substitution Worksheet
 - Interactive Elements Synthetic Substitution Worksheet
- 8. Staying Engaged with Synthetic Substitution Worksheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Synthetic Substitution Worksheet
- 9. Balancing eBooks and Physical Books Synthetic Substitution Worksheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Synthetic Substitution Worksheet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Synthetic Substitution Worksheet
 - Setting Reading Goals Synthetic Substitution Worksheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Synthetic Substitution Worksheet
 - Fact-Checking eBook Content of Synthetic Substitution Worksheet
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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