

Republic of the Philippines | DEPARTMENT OF EDUCATION
Region III | Division of City Schools | West District
MALABANIAS INTEGRATED SCHOOL 500132
Tamarind St., Clarkview Subd., Malabanas, Angeles City
School Year 2018-2019

NAME: _____
GRADE & SECTION: _____

SCORE: _____
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Factoring the Sum and Difference of Two Cubes

1st Quarter Worksheet #8

Sum of Two Cubes: $x^3 + y^3 = (x + y)(x^2 - xy + y^2)$
Difference of Two Cubes: $x^3 - y^3 = (x - y)(x^2 + xy + y^2)$

Here are the steps required for factoring the sum and difference of two cubes:

Step 1: Decide if the two terms have anything in common, called the greatest common factor or GCF. If so, factor out the GCF. Do not forget to include the GCF as part of your final answer.

Step 2: Get the cube root of the 1st term, then the 2nd term to get the binomial factor.

Step 3: To get the 1st term of the trinomial factor, square the 1st term of the binomial factor.

Step 4: Next, multiply the terms of the binomial factor to create the middle term of the trinomial factor. Signs are opposite.

Step 5: Finally, get the square of the 2nd term of the binomial to create the last term of the trinomial.

Find the factors of each expression.

1. $x^3 + 8$
 $= (x + 2)(x^2 - 2x + 4)$

8. $8x^3 - 27$
 $= (2x - 3)(4x^2 + 6x + 9)$

2. $y^3 - 125$
 $= (y - 5)(y^2 + 5y + 25)$

9. $27y^3 + 125$
 $= (3y + 5)(9y^2 - 15y + 25)$

3. $a^3 + 216$
 $= (a + 6)(a^2 - 6a + 36)$

10. $64a^3 - 216$
 $= (4a - 6)(16a^2 + 24a + 36)$

4. $b^3 - 64$
 $= (b - 4)(b^2 + 4b + 16)$

11. $8b^3 + 27c^3$
 $= (2b + 3c)(4b^2 - 6bc + 9c^2)$

5. $c^3 + 27$
 $= (c + 3)(c^2 - 3c + 9)$

12. $64m^3 - 8n^3$
 $= (4m - 2n)(16m^2 + 8mn + 4n^2)$

6. $m^3 - 1$
 $= (m - 1)(m^2 + m + 1)$

13. $3a^3 + 24b^3$
 $= 3(a^3 + 8b^3)$
 $= 3(a + 2b)(a^2 - 2ab + 4b^2)$

7. $n^3 + 343$
 $= (n + 7)(n^2 - 7n + 49)$

14. $2x^3 - 54y^3$
 $= 2(x^3 - 27y^3)$
 $= 2(x - 3y)(x^2 + 3xy + 9y^2)$

Factoring A Sum Difference Of Cubes Answer Key

Yijin Wang



Factoring A Sum Difference Of Cubes Answer Key:

Unveiling the Magic of Words: A Overview of "**Factoring A Sum Difference Of Cubes Answer Key**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Factoring A Sum Difference Of Cubes Answer Key**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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Table of Contents Factoring A Sum Difference Of Cubes Answer Key

1. Understanding the eBook Factoring A Sum Difference Of Cubes Answer Key
 - The Rise of Digital Reading Factoring A Sum Difference Of Cubes Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Factoring A Sum Difference Of Cubes Answer Key
 - 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 Factoring A Sum Difference Of Cubes Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Factoring A Sum Difference Of Cubes Answer Key
 - Personalized Recommendations
 - Factoring A Sum Difference Of Cubes Answer Key User Reviews and Ratings

- Factoring A Sum Difference Of Cubes Answer Key and Bestseller Lists
- 5. Accessing Factoring A Sum Difference Of Cubes Answer Key Free and Paid eBooks
 - Factoring A Sum Difference Of Cubes Answer Key Public Domain eBooks
 - Factoring A Sum Difference Of Cubes Answer Key eBook Subscription Services
 - Factoring A Sum Difference Of Cubes Answer Key Budget-Friendly Options
- 6. Navigating Factoring A Sum Difference Of Cubes Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Factoring A Sum Difference Of Cubes Answer Key Compatibility with Devices
 - Factoring A Sum Difference Of Cubes Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Factoring A Sum Difference Of Cubes Answer Key
 - Highlighting and Note-Taking Factoring A Sum Difference Of Cubes Answer Key
 - Interactive Elements Factoring A Sum Difference Of Cubes Answer Key
- 8. Staying Engaged with Factoring A Sum Difference Of Cubes Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Factoring A Sum Difference Of Cubes Answer Key
- 9. Balancing eBooks and Physical Books Factoring A Sum Difference Of Cubes Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Factoring A Sum Difference Of Cubes Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Factoring A Sum Difference Of Cubes Answer Key
 - Setting Reading Goals Factoring A Sum Difference Of Cubes Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Factoring A Sum Difference Of Cubes Answer Key
 - Fact-Checking eBook Content of Factoring A Sum Difference Of Cubes Answer Key
 - 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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