

COMPLEX NUMBERS

DEFINITION

The Imaginary Unit i is defined as $i^2 = -1$.
Complex Number $a + bi$ where $a, b \in \mathbb{R}$.
Real part is a and imaginary part is b .

Complex Conjugate $a - bi$ and $a + bi$

Modulus (absolute value) $|a + bi| = \sqrt{a^2 + b^2}$

Argument (angle) θ is the angle measured from the positive real axis.

Complex Number in Polar Form $r(\cos \theta + i \sin \theta)$

ALGEBRA

Addition $(a + bi) + (c + di) = (a + c) + (b + d)i$

Subtraction $(a + bi) - (c + di) = (a - c) + (b - d)i$

Multiplication $(a + bi)(c + di) = (ac - bd) + (ad + bc)i$

Multiplication of Complex Numbers $(a + bi)(c + di) = (ac - bd) + (ad + bc)i$

Multiplication of Polar Form $r_1(\cos \theta_1 + i \sin \theta_1) \cdot r_2(\cos \theta_2 + i \sin \theta_2) = r_1 r_2 (\cos(\theta_1 + \theta_2) + i \sin(\theta_1 + \theta_2))$

Division $\frac{a + bi}{c + di} = \frac{(a + bi)(c - di)}{(c + di)(c - di)} = \frac{(ac + bd) + (bc - ad)i}{c^2 + d^2}$

Division of Polar Form $\frac{r_1(\cos \theta_1 + i \sin \theta_1)}{r_2(\cos \theta_2 + i \sin \theta_2)} = \frac{r_1}{r_2} (\cos(\theta_1 - \theta_2) + i \sin(\theta_1 - \theta_2))$

Complex Powers of i $i^0 = 1, i^1 = i, i^2 = -1, i^3 = -i, i^4 = 1$

EXAMPLES

Example 1: Simplify $(3 + 4i)(2 - 5i)$

$$(3 + 4i)(2 - 5i) = 6 - 15i + 8i - 20i^2$$

$$= 6 - 7i - 20(-1)$$

$$= 6 - 7i + 20$$

$$= 26 - 7i$$

Example 2: Find the modulus of $5 + 12i$

$$|5 + 12i| = \sqrt{5^2 + 12^2} = \sqrt{25 + 144} = \sqrt{169} = 13$$

Example 3: Find the argument of $3 + 4i$

$$\theta = \tan^{-1} \left(\frac{4}{3} \right) \approx 53.1^\circ$$

Example 4: Simplify $\frac{1 + i}{1 - i}$

$$\frac{1 + i}{1 - i} \cdot \frac{1 + i}{1 + i} = \frac{(1 + i)^2}{1 - i^2} = \frac{1 + 2i + i^2}{1 - (-1)} = \frac{1 + 2i - 1}{2} = \frac{2i}{2} = i$$

Example 5: Simplify i^{100}

$$i^{100} = (i^4)^{25} = 1^{25} = 1$$

Example 6: Simplify i^{101}

$$i^{101} = i^{100} \cdot i = 1 \cdot i = i$$

Example 7: Simplify i^{102}

$$i^{102} = i^{100} \cdot i^2 = 1 \cdot (-1) = -1$$

Example 8: Simplify i^{103}

$$i^{103} = i^{100} \cdot i^3 = 1 \cdot (-i) = -i$$

Example 9: Simplify i^{104}

$$i^{104} = (i^4)^{26} = 1^{26} = 1$$

POLYNOMIAL EQUATIONS

DEFINITION

A polynomial equation is an equation of the form $a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0 = 0$

where $a_n \neq 0$ and n is a non-negative integer.

Roots of a polynomial equation are the values of x that satisfy the equation.

THEOREM

Sum of Roots: For a polynomial equation $a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0 = 0$, the sum of the roots is $-\frac{a_{n-1}}{a_n}$.

Product of Roots: For a polynomial equation $a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0 = 0$, the product of the roots is $\frac{a_0}{a_n}$.

Example: For the equation $x^2 - 5x + 6 = 0$, the sum of the roots is 5 and the product of the roots is 6 .

Example: For the equation $x^2 + 3x - 18 = 0$, the sum of the roots is -3 and the product of the roots is -18 .

Example: For the equation $x^3 - 6x^2 + 11x - 6 = 0$, the sum of the roots is 6 , the product of the roots is -6 , and the sum of the products of the roots taken two at a time is 11 .

Example: For the equation $x^3 + 2x^2 - 5x + 3 = 0$, the sum of the roots is -2 , the product of the roots is -3 , and the sum of the products of the roots taken two at a time is -5 .

Example: For the equation $x^4 - 10x^3 + 35x^2 - 50x + 25 = 0$, the sum of the roots is 10 , the product of the roots is 25 , and the sum of the products of the roots taken two at a time is 35 .

Example: For the equation $x^4 + 8x^3 + 25x^2 + 32x + 16 = 0$, the sum of the roots is -8 , the product of the roots is 16 , and the sum of the products of the roots taken two at a time is 25 .

Example: For the equation $x^5 - 5x^4 + 10x^3 - 10x^2 + 5x - 1 = 0$, the sum of the roots is 5 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 10 .

Example: For the equation $x^5 + 5x^4 + 10x^3 + 10x^2 + 5x + 1 = 0$, the sum of the roots is -5 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 10 .

Example: For the equation $x^6 - 6x^5 + 15x^4 - 20x^3 + 15x^2 - 6x + 1 = 0$, the sum of the roots is 6 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 15 .

Example: For the equation $x^6 + 6x^5 + 15x^4 + 20x^3 + 15x^2 + 6x + 1 = 0$, the sum of the roots is -6 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 15 .

Example: For the equation $x^7 - 7x^6 + 21x^5 - 35x^4 + 35x^3 - 21x^2 + 7x - 1 = 0$, the sum of the roots is 7 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 21 .

Example: For the equation $x^7 + 7x^6 + 21x^5 + 35x^4 + 35x^3 + 21x^2 + 7x + 1 = 0$, the sum of the roots is -7 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 21 .

Example: For the equation $x^8 - 8x^7 + 28x^6 - 56x^5 + 70x^4 - 56x^3 + 28x^2 - 8x + 1 = 0$, the sum of the roots is 8 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 28 .

Example: For the equation $x^8 + 8x^7 + 28x^6 + 56x^5 + 70x^4 + 56x^3 + 28x^2 + 8x + 1 = 0$, the sum of the roots is -8 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 28 .

Example: For the equation $x^9 - 9x^8 + 36x^7 - 84x^6 + 126x^5 - 126x^4 + 84x^3 - 36x^2 + 9x - 1 = 0$, the sum of the roots is 9 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 36 .

Example: For the equation $x^9 + 9x^8 + 36x^7 + 84x^6 + 126x^5 + 126x^4 + 84x^3 + 36x^2 + 9x + 1 = 0$, the sum of the roots is -9 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 36 .

Example: For the equation $x^{10} - 10x^9 + 45x^8 - 120x^7 + 210x^6 - 252x^5 + 210x^4 - 120x^3 + 45x^2 - 10x + 1 = 0$, the sum of the roots is 10 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 45 .

Example: For the equation $x^{10} + 10x^9 + 45x^8 + 120x^7 + 210x^6 + 252x^5 + 210x^4 + 120x^3 + 45x^2 + 10x + 1 = 0$, the sum of the roots is -10 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 45 .

Example: For the equation $x^{11} - 11x^{10} + 55x^9 - 165x^8 + 330x^7 - 462x^6 + 462x^5 - 330x^4 + 165x^3 - 55x^2 + 11x - 1 = 0$, the sum of the roots is 11 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 55 .

Example: For the equation $x^{11} + 11x^{10} + 55x^9 + 165x^8 + 330x^7 + 462x^6 + 462x^5 + 330x^4 + 165x^3 + 55x^2 + 11x + 1 = 0$, the sum of the roots is -11 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 55 .

Example: For the equation $x^{12} - 12x^{11} + 66x^{10} - 220x^9 + 495x^8 - 792x^7 + 792x^6 - 495x^5 + 220x^4 - 66x^3 + 12x^2 - 12x + 1 = 0$, the sum of the roots is 12 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 66 .

Example: For the equation $x^{12} + 12x^{11} + 66x^{10} + 220x^9 + 495x^8 + 792x^7 + 792x^6 + 495x^5 + 220x^4 + 66x^3 + 12x^2 + 12x + 1 = 0$, the sum of the roots is -12 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 66 .

Example: For the equation $x^{13} - 13x^{12} + 78x^{11} - 286x^{10} + 715x^9 - 1287x^8 + 1287x^7 - 715x^6 + 286x^5 - 78x^4 + 13x^3 - 13x^2 + 13x - 1 = 0$, the sum of the roots is 13 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 78 .

Example: For the equation $x^{13} + 13x^{12} + 78x^{11} + 286x^{10} + 715x^9 + 1287x^8 + 1287x^7 + 715x^6 + 286x^5 + 78x^4 + 13x^3 + 13x^2 + 13x + 1 = 0$, the sum of the roots is -13 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 78 .

Example: For the equation $x^{14} - 14x^{13} + 91x^{12} - 364x^{11} + 1001x^{10} - 2002x^9 + 2002x^8 - 1001x^7 + 364x^6 - 91x^5 + 14x^4 - 14x^3 + 14x^2 - 14x + 1 = 0$, the sum of the roots is 14 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 91 .

Example: For the equation $x^{14} + 14x^{13} + 91x^{12} + 364x^{11} + 1001x^{10} + 2002x^9 + 2002x^8 + 1001x^7 + 364x^6 + 91x^5 + 14x^4 + 14x^3 + 14x^2 + 14x + 1 = 0$, the sum of the roots is -14 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 91 .

Example: For the equation $x^{15} - 15x^{14} + 105x^{13} - 420x^{12} + 1365x^{11} - 3003x^{10} + 3003x^9 - 1365x^8 + 420x^7 - 105x^6 + 15x^5 - 15x^4 + 15x^3 - 15x^2 + 15x - 1 = 0$, the sum of the roots is 15 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 105 .

Example: For the equation $x^{15} + 15x^{14} + 105x^{13} + 420x^{12} + 1365x^{11} + 3003x^{10} + 3003x^9 + 1365x^8 + 420x^7 + 105x^6 + 15x^5 + 15x^4 + 15x^3 + 15x^2 + 15x + 1 = 0$, the sum of the roots is -15 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 105 .

Example: For the equation $x^{16} - 16x^{15} + 120x^{14} - 672x^{13} + 2380x^{12} - 5428x^{11} + 5428x^{10} - 2380x^9 + 672x^8 - 120x^7 + 16x^6 - 16x^5 + 16x^4 - 16x^3 + 16x^2 - 16x + 1 = 0$, the sum of the roots is 16 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 120 .

Example: For the equation $x^{16} + 16x^{15} + 120x^{14} + 672x^{13} + 2380x^{12} + 5428x^{11} + 5428x^{10} + 2380x^9 + 672x^8 + 120x^7 + 16x^6 + 16x^5 + 16x^4 + 16x^3 + 16x^2 + 16x + 1 = 0$, the sum of the roots is -16 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 120 .

Example: For the equation $x^{17} - 17x^{16} + 136x^{15} - 918x^{14} + 4285x^{13} - 14560x^{12} + 35960x^{11} - 67284x^{10} + 67284x^9 - 35960x^8 + 14560x^7 - 4285x^6 + 918x^5 - 136x^4 + 17x^3 - 17x^2 + 17x - 1 = 0$, the sum of the roots is 17 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 136 .

Example: For the equation $x^{17} + 17x^{16} + 136x^{15} + 918x^{14} + 4285x^{13} + 14560x^{12} + 35960x^{11} + 67284x^{10} + 67284x^9 + 35960x^8 + 14560x^7 + 4285x^6 + 918x^5 + 136x^4 + 17x^3 + 17x^2 + 17x + 1 = 0$, the sum of the roots is -17 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 136 .

Example: For the equation $x^{18} - 18x^{17} + 153x^{16} - 1224x^{15} + 6858x^{14} - 31134x^{13} + 103323x^{12} - 274326x^{11} + 274326x^{10} - 103323x^9 + 31134x^8 - 6858x^7 + 1224x^6 - 153x^5 + 18x^4 - 18x^3 + 18x^2 - 18x + 1 = 0$, the sum of the roots is 18 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 153 .

Example: For the equation $x^{18} + 18x^{17} + 153x^{16} + 1224x^{15} + 6858x^{14} + 31134x^{13} + 103323x^{12} + 274326x^{11} + 274326x^{10} + 103323x^9 + 31134x^8 + 6858x^7 + 1224x^6 + 153x^5 + 18x^4 + 18x^3 + 18x^2 + 18x + 1 = 0$, the sum of the roots is -18 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 153 .

Example: For the equation $x^{19} - 19x^{18} + 171x^{17} - 1539x^{16} + 10260x^{15} - 53130x^{14} + 233670x^{13} - 816480x^{12} + 816480x^{11} - 233670x^{10} + 53130x^9 - 10260x^8 + 1539x^7 - 171x^6 + 19x^5 - 19x^4 + 19x^3 - 19x^2 + 19x - 1 = 0$, the sum of the roots is 19 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 171 .

Example: For the equation $x^{19} + 19x^{18} + 171x^{17} + 1539x^{16} + 10260x^{15} + 53130x^{14} + 233670x^{13} + 816480x^{12} + 816480x^{11} + 233670x^{10} + 53130x^9 + 10260x^8 + 1539x^7 + 171x^6 + 19x^5 + 19x^4 + 19x^3 + 19x^2 + 19x + 1 = 0$, the sum of the roots is -19 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 171 .

Example: For the equation $x^{20} - 20x^{19} + 190x^{18} - 1710x^{17} + 12360x^{16} - 72900x^{15} + 352620x^{14} - 1525200x^{13} + 1525200x^{12} - 352620x^{11} + 72900x^{10} - 12360x^9 + 1710x^8 - 190x^7 + 20x^6 - 20x^5 + 20x^4 - 20x^3 + 20x^2 - 20x + 1 = 0$, the sum of the roots is 20 , the product of the roots is -1 , and the sum of the products of the roots taken two at a time is 190 .

Example: For the equation $x^{20} + 20x^{19} + 190x^{18} + 1710x^{17} + 12360x^{16} + 72900x^{15} + 352620x^{14} + 1525200x^{13} + 1525200x^{12} + 352620x^{11} + 72900x^{10} + 12360x^9 + 1710x^8 + 190x^7 + 20x^6 + 20x^5 + 20x^4 + 20x^3 + 20x^2 + 20x + 1 = 0$, the sum of the roots is -20 , the product of the roots is 1 , and the sum of the products of the roots taken two at a time is 190 .

IMPORTANT SERIES

ARITHMETIC SERIES

First term a , common difference d , n terms.

Sum $S_n = \frac{n}{2} [2a + (n-1)d]$

Example: Find the sum of the first 10 terms of an arithmetic series with first term 2 and common difference 3.

Solution: $a = 2, d = 3, n = 10$

$$S_{10} = \frac{10}{2} [2(2) + (10-1)(3)]$$

$$= 5 [4 + 27] = 5 [31] = 155$$

Example: Find the sum of the first 10 terms of an arithmetic series with first term 1 and common difference 1.

Solution: $a = 1, d = 1, n = 10$

$$S_{10} = \frac{10}{2} [2(1) + (10-1)(1)]$$

$$= 5 [2 + 9] = 5 [11] = 55$$

Example: Find the sum of the first 10 terms of an arithmetic series with first term 10 and common difference -2.

Solution: $a = 10, d = -2, n = 10$

$$S_{10} = \frac{10}{2} [2(10) + (10-1)(-2)]$$

$$= 5 [20 - 18] = 5 [2] = 10$$

Example: Find the sum of the first 10 terms of an arithmetic series with first term 1 and common difference 0.

Solution: $a = 1, d = 0, n = 10$

$$S_{10} = \frac{10}{2} [2(1) + (10-1)(0)]$$

$$= 5 [2 + 0] = 5 [2] = 10$$

Example: Find the sum of the first 10 terms of an arithmetic series with first term 1 and common difference 1.

Solution: $a = 1, d = 1, n = 10$

$$S_{10} = \frac{10}{2} [2(1) + (10-1)(1)]$$

$$= 5 [2 + 9] = 5 [11] = 55$$

Example: Find the sum of the first 10 terms of an arithmetic series with first term 1 and common difference 1.

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$$= 5 [2 + 9] = 5 [11] = 55$$

Example: Find the sum of the first 10 terms of an arithmetic series with first term 1 and common difference 1.

Solution: $a = 1, d = 1, n = 10$

$$S_{10} = \frac{10}{2} [2(1) + (10-1)(1)]$$

$$= 5$$

Intermediate Algebra Study Guide

R. David Gustafson



Intermediate Algebra Study Guide:

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Algebra Combined R. David Gustafson,1996-01-01 Provides more explanation worked examples practice problems and practice tests An answer section is included Student Study Guide ,1997 **Intermediate Algebra** Ron Larson,2000-08

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

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

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