

(FP)

# Roots of Polynomials

P-1

## Notes

### Formulae of Algebra:

$$1. (a+b)^2 = a^2 + b^2 + 2ab \Rightarrow a^2 + b^2 = (a+b)^2 - 2ab$$

$$2. (a-b)^2 = a^2 + b^2 - 2ab \Rightarrow a^2 + b^2 = (a+b)^2 - 4ab$$

$$3. (a+b)^3 = a^3 + b^3 + 3ab(a+b) \Rightarrow a^3 + b^3 = (a+b)^3 - 3ab(a+b) \\ = (a+b)(a^2 + b^2 - ab)$$

$$4. (a+b+c)^2 = a^2 + b^2 + c^2 + 2(ab+bc+ca)$$

$$\Rightarrow a^2 + b^2 + c^2 = (a+b+c)^2 - 2(ab+bc+ca)$$

$$5. (a+b+c)^3 = a^3 + b^3 + c^3 + 3(a+b+c)(ab+bc+ca) - 3abc$$

$$\Rightarrow a^3 + b^3 + c^3 = (a+b+c)^3 - 3(a+b+c)(ab+bc+ca) + 3abc$$

$$\text{or } a^3 + b^3 + c^3 = (a+b+c)[a^2 + b^2 + c^2 - (ab+bc+ca)] + 3abc \\ = (a+b+c)[(a+b+c)^2 - 3(ab+bc+ca)] + 3abc \checkmark$$

$$6. a^4 + b^4 + c^4 = (a^2 + b^2 + c^2)^2 - 2(a^2b^2 + b^2c^2 + c^2a^2)$$

$$= (a^2 + b^2 + c^2)^2 - 2[(ab+bc+ca)^2 - 2(a+b+c)abc]$$

$$= [(a+b+c)^2 - 2(ab+bc+ca)]^2 - 2[(ab+bc+ca)^2 - 2abc(a+b+c)]$$

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**Annelies Wilder-Smith**



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## **Table of Contents Polynomial Ssss3 Further Mathematics**

1. Understanding the eBook Polynomial Ssss3 Further Mathematics
  - The Rise of Digital Reading Polynomial Ssss3 Further Mathematics
  - Advantages of eBooks Over Traditional Books
2. Identifying Polynomial Ssss3 Further Mathematics
  - 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 Polynomial Ssss3 Further Mathematics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Polynomial Ssss3 Further Mathematics
  - Personalized Recommendations
  - Polynomial Ssss3 Further Mathematics User Reviews and Ratings
  - Polynomial Ssss3 Further Mathematics and Bestseller Lists
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  - Polynomial Ssss3 Further Mathematics Budget-Friendly Options
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  - Polynomial Ssss3 Further Mathematics Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Polynomial Ssss3 Further Mathematics
    - Highlighting and Note-Taking Polynomial Ssss3 Further Mathematics
    - Interactive Elements Polynomial Ssss3 Further Mathematics
  8. Staying Engaged with Polynomial Ssss3 Further Mathematics
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Polynomial Ssss3 Further Mathematics
  9. Balancing eBooks and Physical Books Polynomial Ssss3 Further Mathematics
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Polynomial Ssss3 Further Mathematics
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Polynomial Ssss3 Further Mathematics
    - Setting Reading Goals Polynomial Ssss3 Further Mathematics
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Polynomial Ssss3 Further Mathematics
    - Fact-Checking eBook Content of Polynomial Ssss3 Further Mathematics
    - 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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