

Topic: Quadratic Equations

1. Quadratic Equations in one Unknown (I)

Q 30 Simplify each of the following expressions.

(a) $i^{123} - i$

(b) $i^{100} + i$

(c) $i^2 \cdot i^3 - i$

(d) $\frac{i^2}{i^3} + i$

Simplify and express each of the following in the form $a + bi$. (31 – 36)

Q 31 $(1 + 2i) - (3 - 4i) + (3 - 6i) =$

Q 32 $(4 - 5i) + (2 - i) - (7 + 3i) = i - 10$

Q 33 $(3 + i)(3 - i)(2 - 7i) = 20 - 70i$

Q 34 $\frac{(3 - i)(3 + 3i)}{1 + i} = 13$

Q 35 $(2 + 3i)(3 - 2i) + (1 - 2i)(4 - 3i) = 10 - 6i$

Q 36 $\frac{1 + i}{1 - 2i} + \frac{1 - 2i}{2 + 3i} = \frac{1}{5} + \frac{2}{5}i$

Solve the following quadratic equations using an appropriate method. (Leave your answers in surd form if necessary; if an equation has no real roots, state so.) (37 – 42)

Q 37. $\frac{1}{2}x^2 = \frac{1}{3}x + 1 \quad \left[x = \frac{1 \pm \sqrt{13}}{2} \right]$

Q 38. $-2x^2 = 4(3x + 1) \quad \left[x = \frac{3}{2} \right]$

Q 39. $8x(x + 5) = 3x - 11 \quad \left[x = \frac{11}{13}, -\frac{1}{2} \right]$

Q 40. $(x - 1)^2 + 2(x + 1) = 1 \quad \text{no real roots}$

Q 41. $3u(u - 2) = (u - 2)^2 \quad \left[u = \frac{2}{3}, 2 \right]$

Q 42. $(y - 1)(2y - 3) = (3y - 2)(4y + 2) \quad \left[y = \frac{-2 \pm \sqrt{10}}{10} \right]$

43. Q (a) Solve $4x^2 - 36x + 81 = 0$. $\left[x = \frac{3}{2} \right]$

Q (b) Hippoc, forms a quadratic equation in x whose roots are twice the roots of $4x^2 - 36x + 81 = 0$, and write the equation in the general form. $x^2 - 9x + 81 = 0$

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JL Elias



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1. Understanding the eBook Maths Core 12 2013
 - The Rise of Digital Reading Maths Core 12 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Core 12 2013
 - 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 Maths Core 12 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Core 12 2013
 - Personalized Recommendations
 - Maths Core 12 2013 User Reviews and Ratings
 - Maths Core 12 2013 and Bestseller Lists

5. Accessing Maths Core 12 2013 Free and Paid eBooks
 - Maths Core 12 2013 Public Domain eBooks
 - Maths Core 12 2013 eBook Subscription Services
 - Maths Core 12 2013 Budget-Friendly Options
6. Navigating Maths Core 12 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Core 12 2013 Compatibility with Devices
 - Maths Core 12 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Core 12 2013
 - Highlighting and Note-Taking Maths Core 12 2013
 - Interactive Elements Maths Core 12 2013
8. Staying Engaged with Maths Core 12 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Core 12 2013
9. Balancing eBooks and Physical Books Maths Core 12 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Core 12 2013
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Core 12 2013
 - Setting Reading Goals Maths Core 12 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Core 12 2013
 - Fact-Checking eBook Content of Maths Core 12 2013
 - 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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