

EXERCISES 299

Use the factor theorem to show that in questions 1 to 4:

1. $x - 1$ is a factor of $x^3 + 3x^2 + 3x$
2. $x - 3$ is a factor of $x^3 - 15x^2 + 45x - 27$
3. $x - 2 + i$ is a factor of $2x^3 + 3x^2 - (5 + 20i)x - 15 - 4i$
4. $x - 2 + i\sqrt{2}$ is a factor of $2x^3 + 3x^2 - 6x + 12$
5. Given $P(x) = x^3 + x^2 + x + a$, find the value of a if $P\left(-\frac{1}{2} + i\sqrt{\frac{3}{4}}\right) = 0$
6. Given $P(x) = x^3 + 2x^2 + ax - 6$, find the value of a if $P(1 + i\sqrt{2}) = 0$
7. Given $P(x) = x^3 + ax^2 + 3x + b$, find the values of a and b if $1 + \sqrt{2}$ are roots of $P(x)$
8. Given $P(x) = x^3 + ax^2 + 4x + b$, find the values of a and b if $P(2) = 0$ and $P(1) = 0 = 0$

Completely factorise each of the following (9 to 24):

9. $x^3 + 2x + 3$ over $\mathbb{C}$
10. $2x^3 + 3x^2 + 3x + 1$ over $\mathbb{C}$
11. $2x^3 + 3x^2 + 3x + 1$ over $\mathbb{R}$ (9) $\mathbb{C}$
12. $2x^3 + 3x^2 + 3x + 1$ over $\mathbb{C}$
13. $x^3 + 2x^2 + x + 2$ over $\mathbb{C}$
14. $x^3 + 2x^2 + x + 2$ over $\mathbb{R}$ (9) $\mathbb{C}$
15. $x^3 + 2x^2 + x + 2$ over $\mathbb{C}$
16. $x^3 + 2x^2 + x + 2$ over $\mathbb{R}$ (9) $\mathbb{C}$
17. $x^3 + 2x^2 + x + 2$ over $\mathbb{C}$
18. $x^3 + 2x^2 + x + 2$ over $\mathbb{R}$ (9) $\mathbb{C}$
19. $x^3 + 2x^2 + x + 2$ over $\mathbb{C}$
20. $x^3 + 2x^2 + x + 2$ over $\mathbb{R}$ (9) $\mathbb{C}$
21. $x^3 + 2x^2 + x + 2$ over $\mathbb{C}$
22. $x^3 + 2x^2 + x + 2$ over $\mathbb{R}$ (9) $\mathbb{C}$
23. $x^3 + 2x^2 + x + 2$ over $\mathbb{C}$
24. $x^3 + 2x^2 + x + 2$ over $\mathbb{R}$ (9) $\mathbb{C}$

24. $2x^3 + 3x^2 + 3x + 1$ over $\mathbb{C}$

Find x in questions 25 to 31.

25. $(x + 1)^3 + 3x^2 + 3x + 1 = 0, x \in \mathbb{C}$
26. $(x + 1)^3 + 3x^2 + 3x + 1 = 0, x \in \mathbb{R}$
27. $(x + 1)^3 + 3x^2 + 3x + 1 = 0, x \in \mathbb{C}$
28. $(x + 1)^3 + 3x^2 + 3x + 1 = 0, x \in \mathbb{R}$
29. $(x + 1)^3 + 3x^2 + 3x + 1 = 0, x \in \mathbb{C}$
30. $(x + 1)^3 + 3x^2 + 3x + 1 = 0, x \in \mathbb{R}$
31. $(x + 1)^3 + 3x^2 + 3x + 1 = 0, x \in \mathbb{C}$
32. $(x + 1)^3 + 3x^2 + 3x + 1 = 0, x \in \mathbb{R}$

33. Find the values of the real numbers a and b , such that $1 + i$ is a root of the equation $x^3 + ax^2 + bx + 6 = 0$.

Find x in questions 34 to 39.

34. $(x + 1)^3 + 3x^2 + 3x + 1 = 0, x \in \mathbb{C}$
35. $(x + 1)^3 + 3x^2 + 3x + 1 = 0, x \in \mathbb{R}$
36. $(x + 1)^3 + 3x^2 + 3x + 1 = 0, x \in \mathbb{C}$
37. $(x + 1)^3 + 3x^2 + 3x + 1 = 0, x \in \mathbb{R}$
38. $(x + 1)^3 + 3x^2 + 3x + 1 = 0, x \in \mathbb{C}$
39. $(x + 1)^3 + 3x^2 + 3x + 1 = 0, x \in \mathbb{R}$

Write down an equation of the lowest possible degree with (i) complex coefficients, (ii) rational coefficients and having the following amongst its roots:

40. $2, 1 + i$
41. $\sqrt{3} + i, 2 - i$
42. $3 + i\sqrt{2}$
43. $2 + i$ of multiplicity 2
44. $3 + 2i$
45. $1 + i\sqrt{3}$ of multiplicity 2

Find and plot on the complex plane (46 to 53):

46. the square roots of $3 + 4i$
47. the square roots of $7 - 24i$
48. $(x + 1)^3 + 3x^2 + 3x + 1 = 0$
49. $(x + 1)^3 + 3x^2 + 3x + 1 = 0$
50. $(x + 1)^3 + 3x^2 + 3x + 1 = 0$
51. the cube roots of 64
52. the sixth roots of -8
53. the cube roots of -8

54. Find real values of a for which a is a solution of the polynomial equation

$$x^3 + 2x^2 + 3x^2 + 4x + 10 = 0.$$

55. Hence find all the solutions of this equation.

56. Find the values which the real numbers a and b must take for $x = 1$ to be a root of the complex equation $ax^3 + bx^2 + 3x + 1 = 0$.

57. If ω_1, ω_2 and ω_3 are the cube roots of unity, prove that (i) $\omega_1 + \omega_2 + \omega_3 = 0$, (ii) $\omega_1 + \omega_2 + \omega_3 = 0$.

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1. Understanding the eBook Maths Specialist 3ab Exam Papers
 - The Rise of Digital Reading Maths Specialist 3ab Exam Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Specialist 3ab Exam Papers
 - 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 Specialist 3ab Exam Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Specialist 3ab Exam Papers
 - Personalized Recommendations

- Maths Specialist 3ab Exam Papers User Reviews and Ratings
- Maths Specialist 3ab Exam Papers and Bestseller Lists
- 5. Accessing Maths Specialist 3ab Exam Papers Free and Paid eBooks
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 - Maths Specialist 3ab Exam Papers eBook Subscription Services
 - Maths Specialist 3ab Exam Papers Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Maths Specialist 3ab Exam Papers Compatibility with Devices
 - Maths Specialist 3ab Exam Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Specialist 3ab Exam Papers
 - Highlighting and Note-Taking Maths Specialist 3ab Exam Papers
 - Interactive Elements Maths Specialist 3ab Exam Papers
- 8. Staying Engaged with Maths Specialist 3ab Exam Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Specialist 3ab Exam Papers
- 9. Balancing eBooks and Physical Books Maths Specialist 3ab Exam Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Specialist 3ab Exam Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Specialist 3ab Exam Papers
 - Setting Reading Goals Maths Specialist 3ab Exam Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Specialist 3ab Exam Papers
 - Fact-Checking eBook Content of Maths Specialist 3ab Exam Papers

- 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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