

EXERCISES 29p

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 $2x^3 + 3x^2 - (5 + 20i)x - 17 - 4i$
4. $x - 2 + i\sqrt{2}$ is a factor of $2x^3 + 3ix^2 + 2ix^2 - 6x + 11$
5. Given $P(x) = x^3 + x^2 + x + a$, find the value of a if $P\left(-\frac{1}{2} + i\sqrt{\frac{3}{2}}\right) = 0$
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 $1 + i$ and $1 + \sqrt{2}$ 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 $P(1 + i) = 0$

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) $\mathbb{R}$ (10) $\mathbb{C}$
12. $2x^3 + 3x^2 + 3x + 1$ over $\mathbb{C}$
13. $x^3 + 2x^2 + x + 3$ over $\mathbb{C}$
14. $x^3 + 2x^2 + x + 3$ over $\mathbb{R}$ (11) $\mathbb{R}$ (12) $\mathbb{C}$
15. $x^3 + 2x^2 + x + 3$ over $\mathbb{C}$ (13) $\mathbb{C}$ (14) $\mathbb{C}$
16. $x^3 + 2x^2 + x + 3$ over $\mathbb{R}$ (15) $\mathbb{R}$ (16) $\mathbb{C}$
17. $x^3 + 2x^2 + x + 3$ over $\mathbb{C}$ (17) $\mathbb{R}$ (18) $\mathbb{C}$
18. $x^3 + 2x^2 + x + 3$ over $\mathbb{R}$ (19) $\mathbb{R}$ (20) $\mathbb{C}$
19. $x^3 + 2x^2 + x + 3$ over $\mathbb{C}$ (21) $\mathbb{R}$ (22) $\mathbb{C}$
20. $x^3 + 2x^2 + x + 3$ over $\mathbb{R}$ (23) $\mathbb{R}$ (24) $\mathbb{C}$
21. $x^3 + 2x^2 + x + 3$ over $\mathbb{C}$ (25) $\mathbb{R}$ (26) $\mathbb{C}$
22. $x^3 + 2x^2 + x + 3$ over $\mathbb{R}$ (27) $\mathbb{R}$ (28) $\mathbb{C}$
23. $x^3 + 2x^2 + x + 3$ over $\mathbb{C}$ (29) $\mathbb{R}$ (30) $\mathbb{C}$
24. $x^3 + 2x^2 + x + 3$ over $\mathbb{R}$ (31) $\mathbb{R}$ (32) $\mathbb{C}$

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

Find x in questions 25 to 31:

25. $(x + 1)^3 + 4x + 3 = 0, x \in \mathbb{C}$
26. $(x + 1)^3 + 4x + 3 = 0, x \in \mathbb{R}$ (33) $x \in \mathbb{R}$ (34) $x \in \mathbb{C}$
27. $(x + 1)^3 + 4x + 3 = 0, x \in \mathbb{C}$
28. $(x + 1)^3 + 4x + 3 = 0, x \in \mathbb{R}$ (35) $x \in \mathbb{R}$ (36) $x \in \mathbb{C}$
29. $(x + 1)^3 + 4x + 3 = 0, x \in \mathbb{C}$
30. $(x + 1)^3 + 4x + 3 = 0, x \in \mathbb{R}$ (37) $x \in \mathbb{R}$ (38) $x \in \mathbb{C}$
31. $(x + 1)^3 + 4x + 3 = 0, x \in \mathbb{C}$

32. 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 33 to 39:

33. $(x + 1)^3 + 4x + 3 = 0, x \in \mathbb{C}$
34. $(x + 1)^3 + 4x + 3 = 0, x \in \mathbb{R}$ (39) $x \in \mathbb{R}$ (40) $x \in \mathbb{C}$
35. $(x + 1)^3 + 4x + 3 = 0, x \in \mathbb{C}$ given that $x + 1 + 2i$ is one element of the solution set
36. $(x + 1)^3 + 4x + 3 = 0, x \in \mathbb{C}$
37. $(x + 1)^3 + 4x + 3 = 0, x \in \mathbb{R}$ (41) $x \in \mathbb{R}$ (42) $x \in \mathbb{C}$
38. $(x + 1)^3 + 4x + 3 = 0, x \in \mathbb{C}$
39. $(x + 1)^3 + 4x + 3 = 0, x \in \mathbb{R}$ (43) $x \in \mathbb{R}$ (44) $x \in \mathbb{C}$

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. $(x + 1)^3 + 4x + 3 = 0$
49. $(x + 1)^3 + 4x + 3 = 0$
50. $(x + 1)^3 + 4x + 3 = 0$
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 $ax^3 + bx + 13x + 9i = 0$.

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) $\omega_1 + \omega_2 + \omega_3 = 0$, (iii) $\omega_1 + \omega_2 + \omega_3 = 0$.

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Roger Dedman



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