EXERCISES 2(c)

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

1. $z - i$ is a factor of [illegible]
2. $z - 3i$ is a factor of [illegible]
3. $z - 2 - i$ is a factor of [illegible]
4. $z - 1 - i\sqrt{2}$ is a factor of [illegible]
5. Given $P(z) = $ [illegible], find the value of a if $P\left(-\frac{1}{2} + \frac{i\sqrt{3}}{2}\right) = 0$.
6. Given $P(z) = $ [illegible], find the value of a if $P(1 + i\sqrt{2}) = 0$.
7. Given $P(z) = $ [illegible], find the values of a and b if i and $1 + \sqrt{2}$ are zeros of $P(z)$.
8. Given $P(z) = $ [illegible], 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. [illegible] over C
10. [illegible] over C
11. [illegible] over (i) R (ii) C
12. [illegible] over C
13. [illegible] over C
14. [illegible] over (i) R (ii) C
15. [illegible] over (i) Q (ii) R (iii) C
16. [illegible] over (i) R (ii) C
17. [illegible] over (i) R (ii) C
18. [illegible] over C
19. [illegible] over (i) R (ii) C
20. [illegible] over (i) R (ii) C
21. [illegible] over (i) R (ii) C given that [illegible] is one linear factor.
22. [illegible] over C
23. [illegible] over (i) R (ii) C
24. [illegible] over C

Find z in questions 25 to 31.

25. $\{z$: [illegible], $z \in C\}$
26. $\{z$: [illegible]$\}$ if (i) $z \in R$ (ii) $z \in C$
27. $\{z$: [illegible], $z \in C\}$
28. $\{z$: [illegible], $z \in C\}$
29. $\{z$: [illegible], $z \in C\}$
30. $\{z$: [illegible], $z \in R\}$
31. $\{z$: [illegible], $z \in C\}$
32. Find the values of the real numbers a and b, such that $1 + i$ is a root of the equation [illegible].

Find z in questions 33 to 39.

33. $\{z$: [illegible], $z \in C\}$
34. $\{z$: [illegible], $z \in R\}$
35. $\{z$: [illegible]$\}$ given that $z = 1 - 2i$ is one element of the solution set.
36. $\{z$: [illegible], $z \in C\}$
37. $\{z$: [illegible], $z \in R\}$
38. $\{z$: [illegible], $z \in C\}$
39. $\{z$: [illegible], $z \in C\}$

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

40. [illegible]
41. [illegible]
42. [illegible]
43. $2 - i$ of multiplicity 2
44. [illegible]
45. [illegible] of multiplicity 2

Find and plot on the complex plane (46 to 55):

46. the square roots of [illegible]
47. the square roots of [illegible]
48. $\{z$: [illegible]$\}$
49. $\{z$: [illegible]$\}$
50. $\{z$: [illegible]$\}$
51. the cube roots of 64
52. the fourth roots of [illegible]
53. the sixth roots of [illegible]
54. the sixth roots of 64
55. the cube roots of [illegible]
56. Find real values of a for which ai is a solution of the polynomial equation

$$[illegible]$$

Hence find all the solutions of this equation.

57. Find the values which the real numbers a and b must take for $z = $ [illegible] to be a root of the complex equation [illegible].
58. If 1, w_1 and w_2 are the cube roots of unity, prove that (i) [illegible] (ii) $w_1 + w_2 = -1$, (iii) $w_1w_2 = 1$.

Maths Specialist 3ab Exam Papers

Minjie Lin

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