

Q10

$\frac{d^2x}{dt^2} + 2\frac{dx}{dt} + 2x = 0$
 (i) find any three complex roots.
 (ii) sketch the real part of the solution.
 (iii) sketch the imaginary part of the solution.

Q11: find any three roots of $z^2 + 2z + 2 = 0$
 (i) sketch the real part of the solution.
 (ii) sketch the imaginary part of the solution.

Q12: find any three roots of $z^2 + 2z + 2 = 0$
 (i) sketch the real part of the solution.
 (ii) sketch the imaginary part of the solution.

Q13: find any three roots of $z^2 + 2z + 2 = 0$
 (i) sketch the real part of the solution.
 (ii) sketch the imaginary part of the solution.

Q14: find any three roots of $z^2 + 2z + 2 = 0$
 (i) sketch the real part of the solution.
 (ii) sketch the imaginary part of the solution.

Q15: find any three roots of $z^2 + 2z + 2 = 0$
 (i) sketch the real part of the solution.
 (ii) sketch the imaginary part of the solution.

Q16: find any three roots of $z^2 + 2z + 2 = 0$
 (i) sketch the real part of the solution.
 (ii) sketch the imaginary part of the solution.

Q17: find any three roots of $z^2 + 2z + 2 = 0$
 (i) sketch the real part of the solution.
 (ii) sketch the imaginary part of the solution.

Q18: find any three roots of $z^2 + 2z + 2 = 0$
 (i) sketch the real part of the solution.
 (ii) sketch the imaginary part of the solution.