Roots of Polynomials

Example 1: Find the quadratic equation with roots α = 2+ 4i and β = 2 – 4i in the form

(2 Methods)

Roots of Quadratics

Example 1: Find the quadratic equation with roots α = 2+ 4i and β = 2 – 4i in the form

(2 Methods)

Example:

Find the quadratic equation with roots α = 2+ 4i and β = 2 – 4i in the form

(2 Methods)

[Textbook] Given that is one of the roots of a quadratic equation with real coefficients,

(a) state the value of the other root, .

(b) find the quadratic equation.

Proof that Complex Roots Appear in Complex Pairs

Proof 1

Example 1: Find the quadratic equation with roots α = 2+ 4i and β = 2 – 4i in the form

(2 Methods)

Proof 2

Example 1: Find the quadratic equation with roots α = 2+ 4i and β = 2 – 4i in the form

(2 Methods)

Test Your Understanding

Exercise 1E Page 9 -10

