Roots of Cubic and Quartic Equations

Cubics

Quartics

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

(2 Methods)

Quartics

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

(2 Methods)

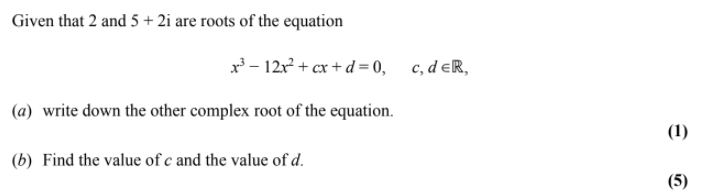
Examples

1. [Textbook] Given that is a root of the quartic equation

, solve the equation completely.

2. [Textbook] Show that is a factor of . Hence solve the equation

Test Your Understanding:



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