

Personal Skills 1

Polynomial equations with degree n when $n \in I^+$ $n > 2$ and $a_n = 1$

Learning outcomes Find the n root of a complex number when $n \in I^+$, and Solve polynomial equations of one variable with integer coefficients of degree less than or equal to three.

Intended destination Find the solution of the polynomial equations with degree n, when $n \in I^+$ $n > 2$ and $a_n = 1$, The only variable is an integer coefficients

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Given $a_n x^n + a_{n-1} x^{n-1} + a_{n-2} x^{n-2} + \dots + a_1 x + a_0 = 0, n \in I^+$,

when $a_0, a_1, a_2, \dots, a_n \in I, a_0 \neq 0$ How to do this Factorization of polynomial equations up to degree 2, then use the formula of quadratic polynomials.

Find the answers to the following equations.

<p>1) $x^4 + 26x^2 + 25 = 0$ <u>Solution</u> $(x^2 + 25)(x^2 + 1) = 0$</p>	<p>3) $x^3 - x^2 - 2x - 12 = 0$ <u>Solution</u></p>
<p>2) $x^4 - 2x^3 - 9x^2 + 2x + 8 = 0$ <u>Solution</u></p>	<p>4) $x^3 + 3x^2 + 3x + 2 = 0$ <u>Solution</u></p>



Summary score

Score 8 points made points

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