Personal Skills 1

Guidance document 18

Polynomial equations with degree n **when n ∈ I^+ n>2, $a_n \neq 1$**

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

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

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Find answers to the following equations.

1) $2x^3-x+1 = 0$ <u>Solution</u> $a_0= 1$ (k) , $a_n= 2$ (m) , $\frac{k}{m} = \pm 1, \pm \frac{1}{2}$ $f(-1) = 2(-1)^3-(-1)+1=0$ -1 | 2 0 -1 1 $2x^3-x+1 = 0$ ( )( ) =0	3) $5x^4-4x^3+19x^2-16x-4 = 0$
2) $3x^4-4x^3-8x^2+9x-2 = 0$	4) $2x^3+2x^2+x+1 = 0$

Summary score

Score 8 points made .... points

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