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Fundamental Problem of Algebra

Consider an integer polynomial

$P(X) = \sum_{i=0}^n a_i X^i$ ($a_i \in \mathbb{Z}, a_n \neq 0$).

(1) Many of the oldest problems in mathematics stem from attempts to solve the equation $P(X) = 0$, (2) i.e., to find numbers α such that $P(\alpha) = 0$.

We call such an α a solution of equation (2); alternatively, α is a root or zero of the polynomial $P(X)$. By definition, an algebraic number is a zero of some

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