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nonzero integer polynomial  
 $P(X) = \sum_{i=0}^n a_i X^i$  ( $a_i \in \mathbb{Z}, a_n \neq 0$ ). (1) Many of

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

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

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