

Definition 6.60. [OC8] Given a commutative ring A , the set of polynomials $p(x) = a_0 + a_1x + \cdots + a_nx^n$ with coefficients $a_i \in A$ is usually denoted by $A[x]$; this set, endowed with the usual operations of sum and product of polynomials, is a commutative ring.