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Erdős, Paul; Fajtlowicz, Siemion

On composition of polynomials. (In English)

Algebra Univers. 7, 357-360 (1977). [0002-5240]

In this paper the order of enlargeability  $\varepsilon(A)$  of an algebra A over a field F is investigated. Let  $A^{(n)}$  denote the set of all n-ary polynomial operations of A and  $A^{(\omega)}$  the set of all polynomial operations of A, then

$$\varepsilon(a) := \min\{n : \forall_B([A^{(n)} = B^{(n)}] \Rightarrow [A^{(\omega)} \supseteq B^{(\omega)}])\},\$$

where min  $\{\emptyset\} := \infty$ .  $\varepsilon(A)$  is determined for algebras A over countable and uncountable fields F. Special results are obtained for A = F.

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Classification: 08A99 Universal algebra 12E99 General field theory