

# GROWTH RATES OF FINITE ALGEBRAS

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For a finite algebra  $\mathbf{A}$  and a positive integer  $n$ , what is the minimum number of elements needed to generate  $\mathbf{A}^n$ ? If  $d_{\mathbf{A}}(n)$  represents this number, then  $d_{\mathbf{A}}(n)$  goes to infinity monotonically as  $n$  goes to infinity. I will talk about how the structure of  $\mathbf{A}$  influences the rate at which  $d_{\mathbf{A}}(n)$  increases.

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