

Anneaux

Voc \rightarrow I idéal $\triangleright (I, +)$ ssg de $(A, +)$
 $\triangleright \forall \alpha, \lambda \in A, \lambda \in I \quad \lambda \alpha \in I$

\rightarrow Description interne d'idéal engendré

$$I(x) = \{x \in A \mid \exists p \in \mathbb{N} \exists (\alpha_1, \dots, \alpha_p) \in X^p \exists (\lambda_1, \dots, \lambda_p) \in A^p \sum_{i=1}^p \lambda_i \alpha_i = x\}$$

\rightarrow φ morphisme d'anneaux $\triangleright \text{Ker } \varphi$ idéal
 \triangleright si γ idéal $\varphi^{-1}(\gamma)$ aussi

\rightsquigarrow Voc: idéal premier, maximal p154

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