

Algèbre commutative et géométrie algébrique
TD Chapitre 2

Dans tous les exercices, k désigne un corps supposé algébriquement clos.

Exercice 1. Soit f, g deux polynômes dans $k[X]$ de degrés respectifs n et m . Si $n \geq m$ et si r est le reste de la division de f par g . Montrer que

$$\text{Res}(f, g) = (-1)^{nm} b_m^{n-d} \text{Res}(g, r),$$

où $d = \deg r$ et b_m est le coefficient dominant de g . Expliquer comment calculer le résultant en utilisant l'algorithme d'Euclide. Calculer le résultant de

$$f = 2X^5 + 3X^4 + 3X^2 + 2X - 5, \quad g = X^3 + 2X^2 - 1.$$

Exercice 2. Calculer le résultant $\text{res}_Y(f, g)$ des polynômes

$$f = X^2 - XY + Y^2 - 1, \quad g = 2X^2 + Y^2 - Y - 2$$

par rapport à la variable Y . Déterminer l'ensemble algébrique $V((f, g))$.

Exercice 3. Soient f et g deux polynômes de $k[X]$. Fabriquer un polynôme dont les racines sont les sommes d'une racine de f et d'une racine de g .

Fabriquer un polynôme à coefficients dans \mathbb{Z} qui a $\sqrt{2} + \sqrt[3]{7}$ pour racine.

Exercice 4. Soient f et g deux polynômes de degrés n et m respectivement, à coefficients dans k de la forme

$$f = a_n(X - \alpha_1) \cdots (X - \alpha_n), \quad g = b_m(X - \beta_1) \cdots (X - \beta_m).$$

On pose

$$\Psi(f, g) := a_n^m b_m^n \prod_{1 \leq i \leq n} \prod_{1 \leq j \leq m} (\alpha_i - \beta_j).$$

Montrer: (i) $\Psi(g, f) = (-1)^{nm} \Psi(f, g)$; (ii) si le reste de la division euclidienne de f par g est le polynôme r de degré d , $\Psi(f, g) = (-1)^{nm} b_m^{n-d} \Psi(g, r)$; (iii) Si b est une constante, $\Psi(f, b) = b^n$.

En déduire $\text{Res}(f, g) = \Psi(f, g)$.

Exercice 5. Soit V la courbe de \mathbb{R}^2 donnée par la paramétrisation $\{(t^2 + t, t^2), t \in \mathbb{R}\}$. Trouver son équation algébrique, c'est-à-dire, trouver un polynôme $f \in \mathbb{R}[X, Y]$ tel que $V(f) = V$. Même question pour la courbe $\{(\frac{t^2}{1+t^2}, \frac{t}{1+t^2}), t \in \mathbb{R}\}$.

Exercice 6. Soit $f, g \in \mathbb{C}[X, Y]$. Montrer que $V((f, g))$ est de cardinal fini si et seulement si f et g sont premiers entre eux.

Exercice 7. Considérons le polynôme $f = 2X^2Y^2 - X^2 + Y^2$ et l'idéal I de $k[X, Y]$ engendré par les polynômes $f_1 = X^2Y + Y$ et $f_2 = Y^2 - 1$. On prend l'ordre lex sur \mathbb{N}^2 avec $X > Y$.

- a) Effectuer la division de f par l'ensemble ordonné $\{f_1, f_2\}$.
- b) Effectuer la division de f par $\{f_2, f_1\}$.



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Xiang Xie



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