

Il reste après les simplifications

$$\Delta g = \frac{\partial^2 g}{\partial u^2} + \frac{\partial^2 g}{\partial v^2} = [\operatorname{ch}^2 u \sin^2 v + \operatorname{sh}^2 u \cos^2 v] \left( \frac{\partial^2 f}{\partial x^2} + \frac{\partial^2 f}{\partial y^2} \right) = \boxed{\Delta g = (\operatorname{sh}^2 u + \sin^2 v) \Delta f}.$$

En particulier on voit que si  $f$  est harmonique sur  $\mathcal{P}$  alors  $\Delta f = 0$  d'où  $\Delta g = 0$  et donc  $g = f \circ H$  est harmonique sur  $]0, +\infty[ \times ]0, \pi[$ .

### Exercice 3

1. Notons  $\varphi$  l'application définie de  $\mathcal{M}$  dans  $\mathbb{R}^2$  par  $\varphi(x, y) = (x^2 - y, x^2 + y)$ .

Cherchons l'image de  $\varphi$  en résolvant l'équation  $(*) \varphi(x, y) = (a, b)$  d'inconnue  $(x, y) \in \mathcal{M}$ . On a

$$\begin{cases} \varphi(x, y) = (a, b) \\ (x, y) \in \mathcal{M} \end{cases} \iff \begin{cases} x^2 - y = a \\ x^2 + y = b \\ x > 0 \end{cases} \iff \begin{cases} x = \sqrt{\frac{a+b}{2}} \\ y = \frac{b-a}{2} \\ a+b > 0 \end{cases}$$

Ainsi, l'équation  $(*)$  admet une unique solution  $(x, y)$  dans  $\mathcal{M}$  si et seulement si  $(a, b) \in \mathcal{V}$  où  $\mathcal{V} = \{(a, b) \in \mathbb{R}^2 / a + b > 0\}$ .  $\mathcal{V}$  est un demi-plan ouvert, donc un ouvert convexe de  $\mathbb{R}^2$ .

La restriction au but, que l'on note encore  $\varphi = \left( \begin{array}{ccc} \mathcal{M} & \longrightarrow & \mathcal{V} \\ (x, y) & \longmapsto & (x^2 - y, x^2 + y) \end{array} \right)$  est donc une bijection, et sa bijection réciproque est

$$\varphi^{-1} = \left( \begin{array}{ccc} \mathcal{V} & \longrightarrow & \mathcal{M} \\ (u, v) & \longmapsto & \left( \sqrt{\frac{u+v}{2}}, \frac{v-u}{2} \right) \end{array} \right)$$

La fonction  $\varphi$  est de classe  $C^2$  sur  $\mathbb{R}^2$  (composantes polynomiales) et de même,  $\varphi^{-1}$  est de classe  $C^2$  comme le montrent les théorèmes généraux.

2. Soit  $f : \mathcal{M} \rightarrow \mathbb{R}$ .  $f$  est de classe  $C^2$  sur  $\mathcal{M}$  si et seulement si  $F = f \circ \varphi^{-1}$  est de classe  $C^2$  sur  $\mathcal{V}$  et on a, avec les notations habituelles légèrement abusives  $f(x, y) = F(u, v)$  et

$$\begin{aligned} \frac{\partial f}{\partial x} &= 2x \frac{\partial F}{\partial u} + 2x \frac{\partial F}{\partial v}; \\ \frac{\partial^2 f}{\partial x^2} &= 2 \left( \frac{\partial F}{\partial u} + \frac{\partial F}{\partial v} \right) + 2x \left( 2x \frac{\partial^2 F}{\partial u^2} + 4x \frac{\partial^2 F}{\partial u \partial v} + 2x \frac{\partial^2 F}{\partial v^2} \right); \\ \frac{\partial f}{\partial y} &= \frac{\partial F}{\partial v} - \frac{\partial F}{\partial u}; \\ \frac{\partial^2 f}{\partial y^2} &= \frac{\partial^2 F}{\partial v^2} - 2 \frac{\partial^2 F}{\partial u \partial v} + \frac{\partial^2 F}{\partial u^2}. \end{aligned}$$

En remplaçant dans l'équation  $(E)$ , on voit que  $f$  est solution de  $(E)$  sur  $\mathcal{M}$  si et seulement si  $F$  est solution sur  $\mathcal{V}$  de l'EDP élémentaire

$$\frac{\partial^2 F}{\partial u \partial v} = 0,$$

dont la solution générale s'écrit, puisque  $\mathcal{V}$  est un ouvert convexe de  $\mathbb{R}^2$ ,

$$F(u, v) = A(u) + B(v) \quad \text{où } A, B \in C^2(\mathbb{R}, \mathbb{R}).$$

En composant à droite par  $\varphi$  on obtient la solution générale de  $(E)$  sur  $\mathcal{M}$

$$\boxed{f(x, y) = A(x^2 - y) + B(x^2 + y)} \quad \text{où } A, B \in C^2(\mathbb{R}, \mathbb{R}).$$

# Calcul Différentiel 2

**Clemens Wendtner**



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