

$$\text{Gibler } \sqrt[p]{2}$$

$$2 \in [0; +\infty[$$

$$p \in \mathbb{N}^* = \{1, 2, 3, \dots\}$$

$$\text{Sei } x = x^p > 2$$

$$x_n = \frac{1}{p} \left((p-1) x_{n-1} + \frac{2}{x_{n-1}^{p-1}} \right)$$

$$\lim x_n = \sqrt[p]{2}$$

$$2^{\frac{1}{p}} = \sqrt[p]{2}$$

$$2 \in \mathbb{R}, \quad (2 > 0)$$

$$p \in \mathbb{N}^*$$

$$2^{\frac{1}{p}}$$

$$(3^{\frac{1}{7}})$$

$$\sqrt{2}$$

$$X^{\frac{1}{p}}$$

$$x_1, x_2, x_3, x_4, x_5, \dots$$

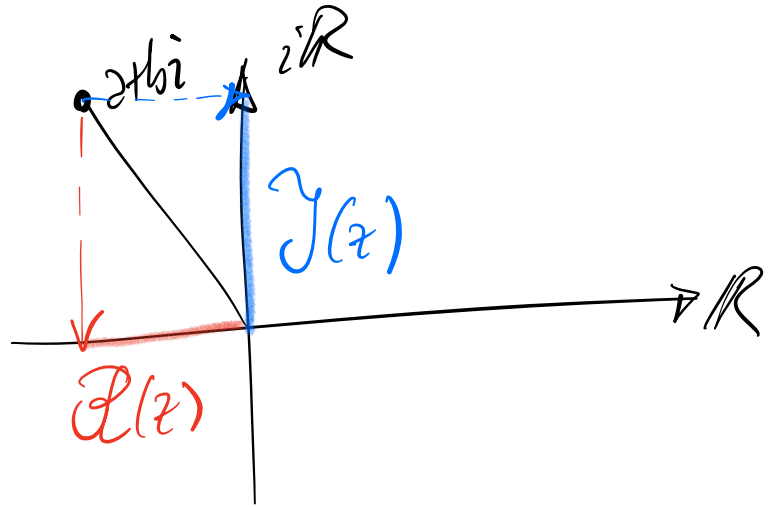
$$X_n = \frac{1}{p} \left((p-1) X_{n-1} + \frac{2}{X_{n-1}^{p-1}} \right)$$

$$z = 2 + 6i$$

$\mathcal{I}(z) = \text{Im}(z) = 6$ est la partie imaginaire de z

$\mathcal{R}(z) = \text{Re}(z) = 2$ est la partie réelle de z

$$\text{Im}(z), \text{Re}(z) \in \mathbb{R}$$



$$z + \bar{z} = 2\mathcal{R}(z)$$

$$z - \bar{z} = 2\mathcal{I}(z)i$$

$$2 + 6i + 2 - 6i = 22$$

$$2 + 6i - (2 - 6i) = 26i$$

$$\sqrt{3-2\sqrt{2}} \quad \sqrt{3+2\sqrt{2}}$$

$$3\sqrt{27} = 3 \cdot \sqrt{9 \cdot 3} = 3\sqrt{9} \cdot \sqrt{3}$$

$$\sqrt[3]{\sqrt{5} \cdot \sqrt{5} \cdot \sqrt{5}} = \left(5 \cdot \left(5 \cdot 5^{1/2} \right)^{1/2} \right)^{1/3}$$

$$\sqrt{\sqrt{5}^2 \sqrt{5}} = \sqrt{\sqrt{5}^3} = \left(5^1 \cdot 5^{1/2} \cdot 5^{1/4} \right)^{1/3}$$

$$= \sqrt[4]{5^3} = 5^{3/4} = \sqrt[12]{5^9}$$

$$\sqrt[4]{5^4} \cdot \sqrt[4]{5^3}$$

$$\sqrt[4]{5^7}$$

$$\sqrt[3]{\sqrt[4]{5^7}} = \sqrt[12]{5^7}$$

$$12x = -8$$

$$x = -\frac{8}{12} = -\frac{2}{3}$$

« l'un seul nombre »

$$(1-4i)z = 6-7i$$

$\in \mathbb{C}$

$$z = \frac{6-7i}{1-4i} \cdot \frac{1+4i}{1+4i}$$