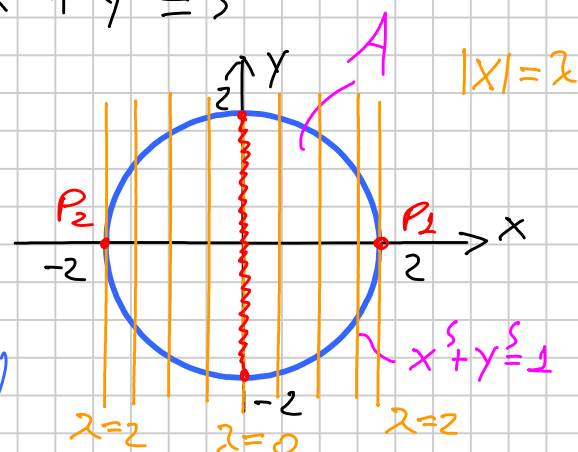


$$f(x,y) = |x|$$

$$A: x^2 + y^2 \leq 5$$

A È COMPATTO $\leadsto \exists \text{ MAX, MIN}$

$$\leadsto \begin{cases} \text{MIN} = 0 \quad \forall P = (0, y) \quad y \in [-2, 2] \\ \text{MAX} = 2 \quad \text{PER } P_1 = (2, 0) \in P_2 = (-2, 0) \end{cases}$$

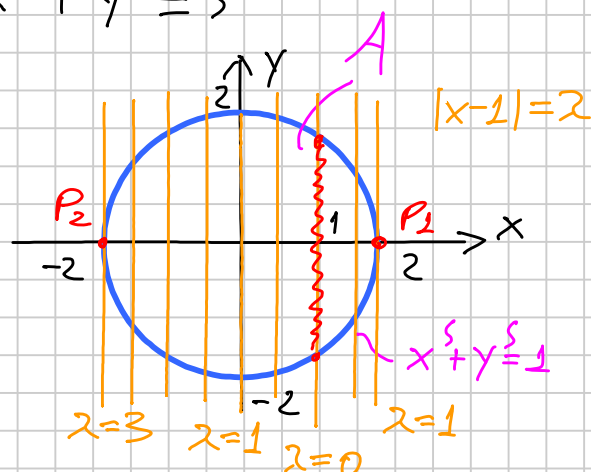


$$f(x,y) = |x-1|$$

$$A: x^2 + y^2 \leq 5$$

A È COMPATTO $\leadsto \exists \text{ MAX, MIN}$

$$\leadsto \begin{cases} \text{MIN} = 0 \quad \forall P = (1, y) \quad y \in [-\sqrt{3}, \sqrt{3}] \\ \text{MAX} = 3 \quad \text{PER } P_2 = (-2, 0) \end{cases}$$

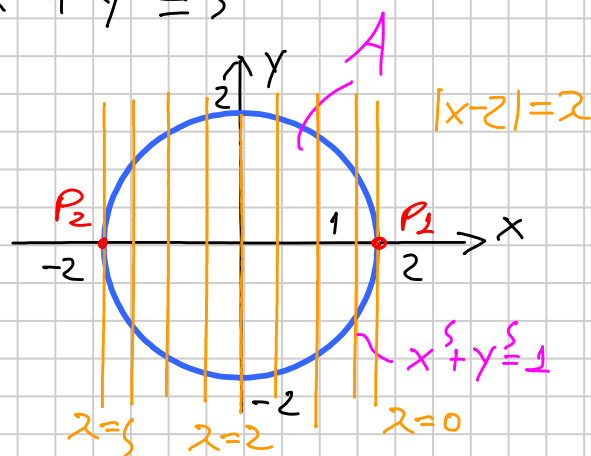


$$f(x,y) = |x-2|$$

$$A: x^2 + y^2 \leq 5$$

A È COMPATTO $\leadsto \exists \text{ MAX, MIN}$

$$\leadsto \begin{cases} \text{MIN} = 0 \quad \text{PER } P_1 = (2, 0) \\ \text{MAX} = 5 \quad \text{PER } P_2 = (-2, 0) \end{cases}$$



$$f(x,y) = |x-3|$$

$$A: x^5 + y^5 \leq 5$$

A È COMPATTO $\leadsto \exists \text{ MAX, MIN}$

$$\leadsto \begin{cases} \text{MIN} = 1 & \text{PER } P_1 = (2,0) \\ \text{MAX} = 5 & \text{PER } P_2 = (-2,0) \end{cases}$$

