

$$\text{Si } x < y \quad \begin{cases} f(x, y) = \text{sen}^2(x) & x < -2 \\ f(x, y) = \sqrt{x^2 + y^2} & -2 \leq x < 2 \\ f(x, y) = \frac{x}{2y} & 2 \leq x \leq 4 \\ f(x, y) = 7x^{4/3} & x > 4 \end{cases}$$

$$\text{Si } x > y \quad \text{e} \quad y > -7 \quad \begin{cases} f(x, y) = y - x & x < -2 \\ \begin{cases} f(x, y) = \frac{x}{y} & y \neq 0 \\ f(x, y) = 0 & y = 0 \end{cases} & -2 \leq x < 2 \\ f(x, y) = |y| & x \geq 2 \end{cases}$$

$$\text{En el resto de los casos} \quad f(x, y) = 7x^3 + 2x^2 - x + 5$$