

appVersion(4) = "0.99.7579.3197"

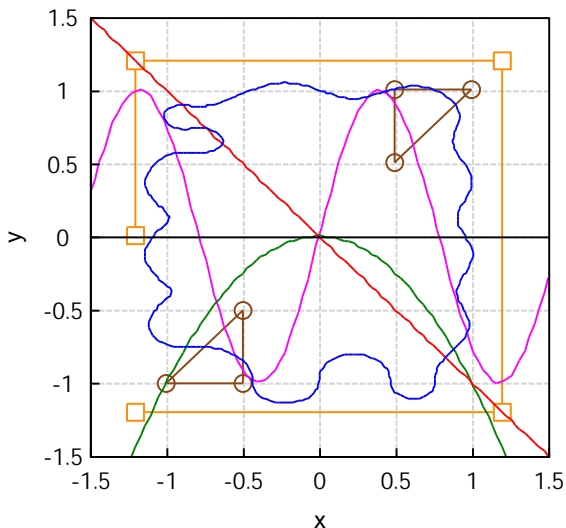
$$f(x, y) := x^4 + y^4 + 0.4 \cdot \sin(7 \cdot x) + 0.3 \cdot \sin(4 \cdot \pi \cdot y) - 1 \quad g(x) := -(x^2)$$

$$M := 1.2 \cdot \begin{bmatrix} -1 & 1 & 1 & -1 & -1 \\ -1 & -1 & 1 & 1 & 0 \end{bmatrix}^T \quad S_1 := \begin{bmatrix} -1 & -0.5 & -0.5 & -1 \\ -1 & -1 & -0.5 & -1 \end{bmatrix}^T \quad S_2 := -\begin{bmatrix} -1 & -0.5 & -0.5 & -1 \\ -1 & -1 & -0.5 & -1 \end{bmatrix}^T$$

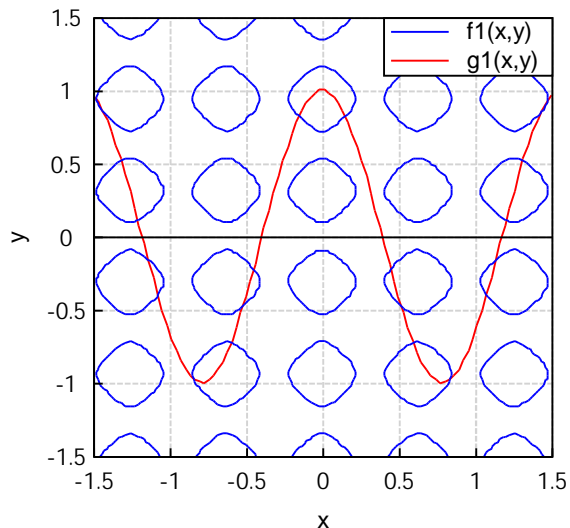
$$PLOT := \begin{cases} f \\ -x \\ g \\ \sin(4 \cdot x) \\ M \\ S \end{cases}$$

$$h(x, k) := (-k) \cdot x^2 - 1$$

$$PLOT1 := \begin{cases} f1(x, y) := (\sin(5 \cdot x))^2 + (\cos(5 \cdot y))^2 - 0.8 \\ g1(x) := \cos(4 \cdot x) \end{cases}$$

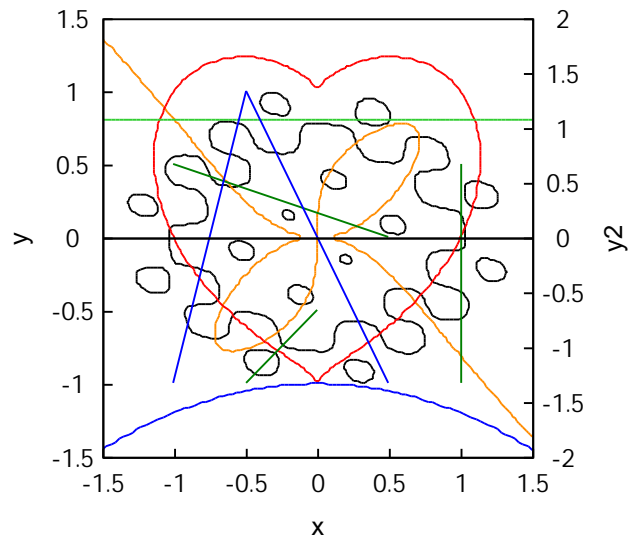
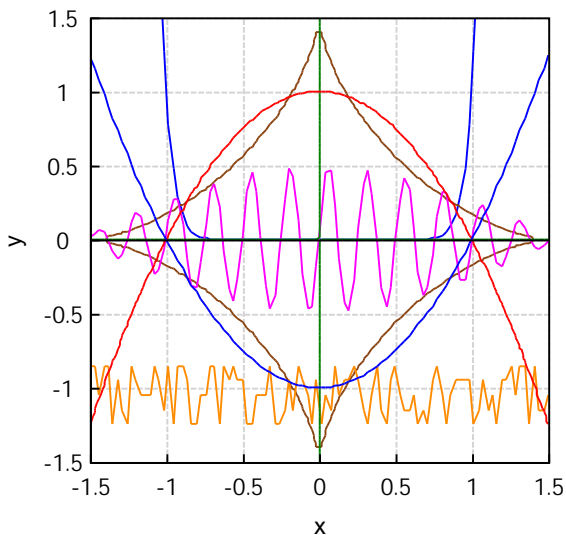


PLOT



PLOT1

Examples



$$\begin{cases} f(y) := y^2 - 1 \\ g(x, y) := y + x^2 - 1 \\ \backslash(a, b) := \frac{a}{b} \\ 0.5 \cdot \sin(25 \cdot t) \cdot \cos(t) \\ \backslash(n) := 0.1 \cdot \text{random}(5) - 1.25 \\ \backslash(x, y) := x^{\frac{2}{3}} + y^{\frac{2}{3}} - 1.5^{\frac{2}{3}} \\ x^{16} \end{cases}$$

$$\begin{cases} M := \text{stack}([[0.5 \ -1], [-0.5 \ 1], [-1 \ -1]]) \\ 1 - 0.2 \\ \left[\begin{bmatrix} 1 & -1 \\ 1 & 0.5 \end{bmatrix} \begin{bmatrix} 0.5 & 0 \\ -1 & 0.5 \end{bmatrix} \begin{bmatrix} -0.5 & -1 \\ 0 & -0.5 \end{bmatrix} \right]^T \\ \left(x^2 + y^2 - 1 \right)^3 - x^2 \cdot y^3 \\ x^5 + y^5 - x \cdot y^2 \\ x^2 + y^2 - (\sin(5 \cdot (x + y)))^2 - \cos(4 \cdot (x - y))^2 \\ h(x, 0.2) \end{cases}$$