

Draghilev's method

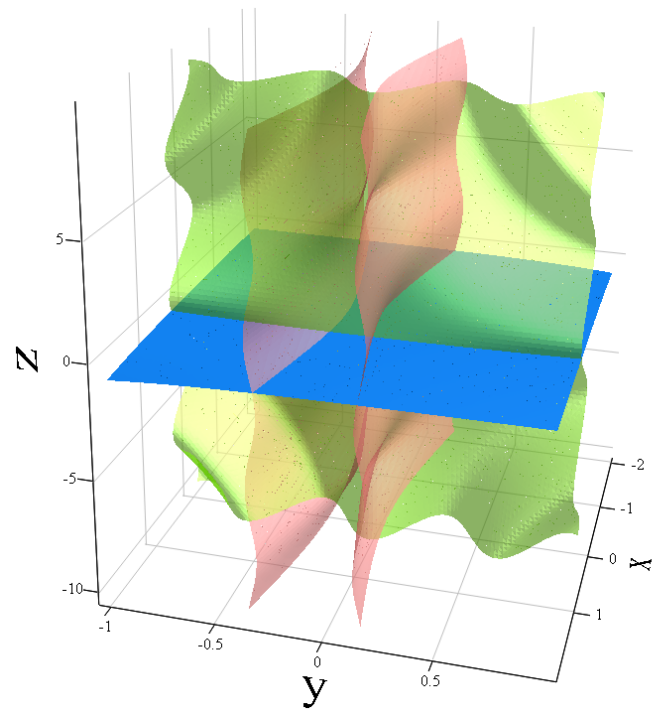
$$f1(x, y, z) := 3 \cdot x - \cos(y \cdot z) - \frac{1}{2}$$

$$f2(x, y, z) := x^2 - 81 \cdot (y + 0.1)^2 + \sin(z) + 1.06$$

$$f3(x, y, z) := 20 \cdot z + e^{-x \cdot y} + \frac{1}{3} \cdot (-3 + 10 \cdot \pi)$$

$$F(X) := \begin{bmatrix} x := X_1 & y := X_2 & z := X_3 \\ f1(x, y, z) \\ f2(x, y, z) \\ f3(x, y, z) \end{bmatrix}$$

appVersion(4) = "0.99.6858.3232"



$X_0 := \text{stack}(0.489, 0.5, -0.513)$

$t_{min} := 0$

$t_{max} := 0.0008$

$N := 50$

$result := \text{Draghilev}(F(X), X_0, t_{min}, t_{max}, N)$

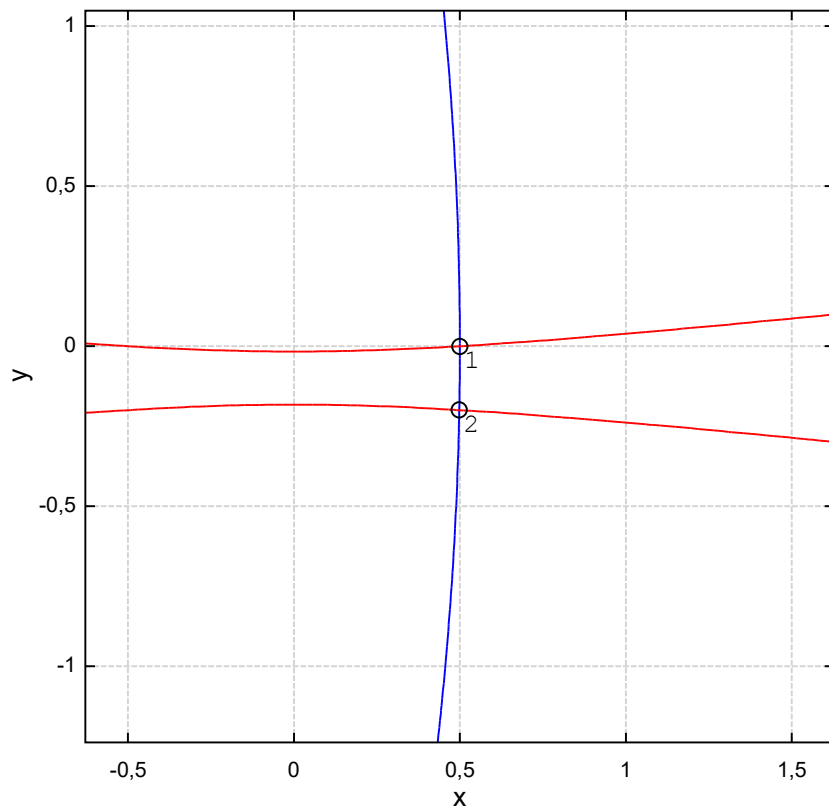
$k := \text{rows}(result)$

$k = 2$

$XY := result[1..k][1..2]$

for $m \in [1..k]$ for $m \in [1..k]$
 $o_O_m := "o"$ $o_ \#_m := \text{num2str}(m)$

$XYZ := result[1..k][1..3]$



$$XYZ = \begin{bmatrix} 0.5 & -0.0009 & -0.5236 \\ 0.4982 & -0.1988 & -0.5288 \end{bmatrix}$$