

Draghilev's method

$$f1(x, y) := 4 \cdot (y - 1)^2 + (x - 1)^2 - 1$$

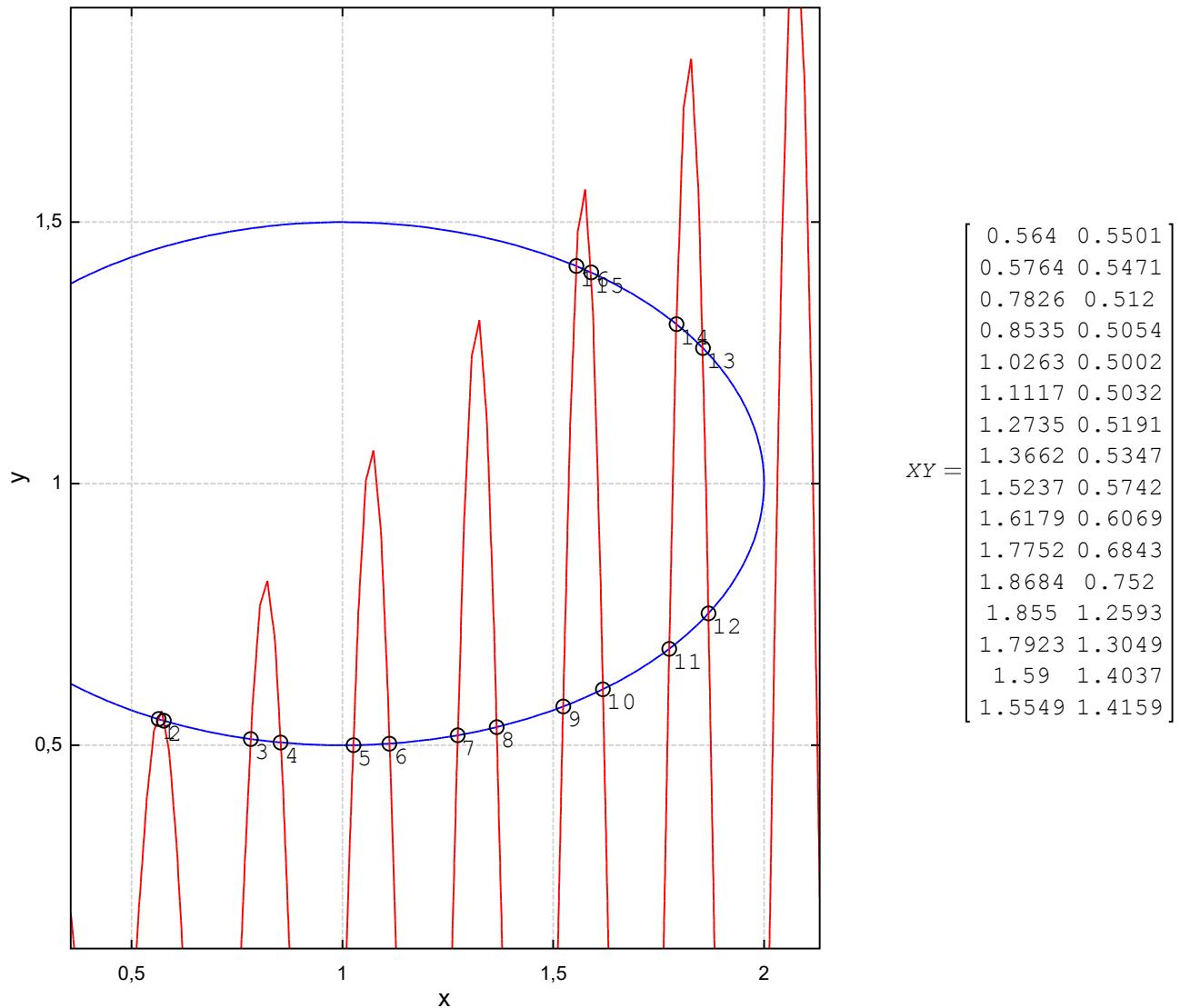
appVersion(4) = "0.99.6858.3232"

$$f2(x, y) := y - x \cdot \sin(25 \cdot x)$$

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

$$X_0 := \text{stack}(0.4, 0.58) \quad t_{\min} := 0 \quad t_{\max} := 0.9 \quad N := 150$$

$$\begin{aligned} \text{result} &:= \text{Draghilev}(F(X), X_0, t_{\min}, t_{\max}, N) & k &:= \text{rows}(\text{result}) & k &= 16 \\ \text{XY} &:= \text{result}[1..k][1..2] & \text{for } m \in [1..k] \text{ for } m \in [1..k] \\ && o_{-O_m} := "o" & o_{-\#m} := \text{num2str}(m) \end{aligned}$$



$$\begin{cases} f1(x, y) \\ f2(x, y) \\ \text{augment}(XY, o_{-O}) \\ \text{augment}(XY, o_{-\#}) \end{cases}$$