

# Exercises

- Analyze and draw the graphs of

$$f(x) = x\sqrt{1-x^2} \quad \text{with } x \in [-1, 1]$$

$$f(x) = \sin(x^2 - 4) \quad \text{with } x \in [0, \pi]$$

$$\begin{pmatrix} x(t) \\ y(t) \end{pmatrix} = \begin{pmatrix} t^2 \\ t^3 - 3t \end{pmatrix} \quad \text{with } t \in [-2, 2]$$

$$\begin{pmatrix} x(t) \\ y(t) \end{pmatrix} = \begin{pmatrix} \cos t \\ \sin^3 t \end{pmatrix} \quad \text{with } t \in [-\pi, \pi]$$

