CZ2003 Tutorial 2 (2022/23, Semester 1)

Mathematical functions in computer graphics

- 1. Give a definition of mathematical function.
- 2. What ways of defining mathematical functions do you know?
- 3. Given an explicit function y = sin(x) + cos(x), propose how to convert it to the respective parametric functions $x = f_1(t)$ $y = f_2(t)$?
- 4. (i) Given parametric functions $x = sin^2(t)$ and y = cos(t), obtain the respective implicit function f(x,y) = 0.
 - (ii) Given parametric functions x = 2 + 3t and y = 3 + t, obtain the respective implicit function f(x,y) = 0.