Modern services of the Internet 2

# Exercises for the laboratory

1. With the use of Wolfram Alpha:
   1. Plot the function f(x)=sin(x2)
   2. Calculate the derivative of f(x) = 3x3+2x2-x+4
   3. Maximize the function f(x) = ln(-x3+2x)
2. Perform all the exercises for the laboratory 1, concerning conversion between positional systems with the help of Wolfram Alpha.
3. With the use of Wolfram Alpha:
   1. Find the names of all the music bands in which Jimmy Page played.
   2. Check how many calories are there in 1 banana.
   3. Draw the Koch snowflake.

# Homework

Provide the queries to Wolfram Alpha as answers.

1. With the use of Wolfram Alpha: **(1 pkt)**
   1. Plot funkcji f(x)=cos(x2)-2sin(x3)
   2. Calculate derivative of f(x) = x3-x2+5x
   3. Maximize the function f(x) = -x2+5
2. Perform all the homeworks for the laboratory 1, concerning conversion between positional systems with the help of Wolfram Alpha. **(2 pkt)**
3. With the use of Wolfram Alpha: **(1 pkt)**
   1. Find the names of all famous people who share birthday with you.
   2. Find the exact date of the second tuesday of may 1942.
   3. Write your name and surname in Morse Code.