CALCULUS

Bachelor in Computer Science and Engineering

Course 2021–2022

Graph of a function

Problem A. Sketch the graph of the function $f(x) = x^2 e^x$.

Problem B. Sketch the graph of the following functions.

$$f(x) = x \sin(x)$$
.

$$g(x) = e^x \sin(x)$$
.

Problem C. Sketch the graph of the function

$$f(x) = x + \ln |x^2 - 1|$$
.

Then, using such graph and without doing any additional calculation, sketch the graph of the function

$$g(x) = |x + \ln |x^2 - 1|$$
.