

Homework 2

Deadline: 8.3.2018 at 14:00

Justify every claim formally!

1. Calculate $\int \tan(x) \, dx$ and specify the domain on which is your result valid.
2. Calculate $\int \frac{-2x^2 + 6x + 8}{x^4 - 4x + 3} \, dx$ and specify the domain on which is your result valid.
3. Find a primitive function corresponding to the function $|e^x \sin x|$ on the whole of \mathbb{R} .