

SUBJECT MATTER

The chapter 9 “Calculus by elementary functions” consists of two sections.

In the first section, we define the elementary functions and study their properties:

- the power function with integer exponent
- n-th root function
- exponential function
- logarithm function
- power function with real exponent
- trigonometric functions
- inverse trigonometric functions
- hyperbolic functions.

In the second section, we execute calculations by elementary functions. In particular:

- limits
- ordinary derivatives
- partial derivatives
- definite integrals
- multiple integrals
- curvilinear integrals
- surface integrals.