

SUBJECT MATTER

The chapter 10 “Ordinary differential equations” consists of two sections.

In the first section, we define the first order ordinary differential equations and study their properties:

- separable differential equations
- linear differential equations
- complete differential equations
- homogeneous differential equations
- general integral of linear differential equations.

In the second section, we define the ordinary differential equations of order greater than 1 and study their properties:

- problem with initial conditions
- linear differential equations
- complete differential equations
- homogeneous differential equations
- *Wronskian*
- independent integrals
- general integral of linear differential equations
- *Lagrange’s* theorem
- linear differential equations with constant coefficients.