

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation

1.1. $f(x) = \int_0^x f(t) dt$

1.2. $f(x) = \int_0^x f(t) dt + \int_0^x f(t) dt$

1.3. $f(x) = \int_0^x f(t) dt + \int_0^x f(t) dt + \int_0^x f(t) dt$

1.4. $f(x) = \int_0^x f(t) dt$