

# CONFIDENTIAL

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1. The first part of the paper is devoted to the study of the properties of the function  $f(x)$  defined by the equation  $f(x) = \int_0^x f(t) dt$ . It is shown that  $f(x)$  is a continuous function and that it satisfies the differential equation  $f'(x) = f(x)$ . The solution of this equation is  $f(x) = Ce^{x^2/2}$ , where  $C$  is a constant. The value of  $C$  is determined by the initial condition  $f(0) = 1$ , which gives  $C = 1$ . Therefore, the function  $f(x)$  is  $f(x) = e^{x^2/2}$ .