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

2. In the second part, we consider the problem of the existence and uniqueness of the solution of the initial value problem for the differential equation $y' = f(x, y)$ with the initial condition $y(x_0) = y_0$.

3. The third part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. In this part, we consider the problem of the existence and uniqueness of the solution of the initial value problem for the differential equation $y' = f(x, y)$ with the initial condition $y(x_0) = y_0$.

4. The fourth part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. In this part, we consider the problem of the existence and uniqueness of the solution of the initial value problem for the differential equation $y' = f(x, y)$ with the initial condition $y(x_0) = y_0$.

5. The fifth part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. In this part, we consider the problem of the existence and uniqueness of the solution of the initial value problem for the differential equation $y' = f(x, y)$ with the initial condition $y(x_0) = y_0$.

6. The sixth part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. In this part, we consider the problem of the existence and uniqueness of the solution of the initial value problem for the differential equation $y' = f(x, y)$ with the initial condition $y(x_0) = y_0$.