ИСР №9

Войтенко Игорь подгруппа №1

12.11.21

1 Таблица интегралов

Интегралы
$\int 0 \cdot \partial x = C$
$\int 1 \cdot \partial x = \int \partial x = x + C$
$\int x^n \partial x = \frac{x^{n+1}}{n+1} + C, n \neq -1, x > 0$
$\int \frac{\partial x}{x} = \ln \lvert x \rvert + C$
$\int a^x \partial x = \frac{a^x}{\ln a} + C, a > 0$
$\int e^x \partial x = e^x + C$
$\int \cos x \partial x = \sin x + C$
$\int \sin x \partial x = -\cos x + C$
$\int \frac{\partial x}{\cos^2 x} = \operatorname{tg} x + C$
$\int \frac{\partial x}{\sin^2 x} = -\operatorname{ctg} x + C$
$\int \frac{\partial x}{\sqrt{a^2 - x^2}} = \arcsin \frac{x}{a} + C$
$\int \frac{\partial x}{a^2 + x^2} = \frac{1}{a} \operatorname{arctg} \frac{x}{a} + C$