

Examples of LaTeX Mathematical Expressions

Fractions

$$\frac{a}{b}$$

Powers

$$x^n$$

Partial Derivatives

$$\frac{\partial f}{\partial x}$$

Integrals

$$\int_a^b f(x) \, dx$$

$$\oint_{\partial S} \mathbf{F} \cdot d\mathbf{r} = \iint_S (\nabla \times \mathbf{F}) \cdot d\mathbf{S}$$

$$\iint_S (\nabla \times \mathbf{F}) \cdot d\mathbf{S} = \oint_{\partial S} \mathbf{F} \cdot d\mathbf{r}$$

$$\oint_{\partial V} \mathbf{E} \cdot d\mathbf{A} = \frac{1}{\epsilon_0} \iiint_V \rho \, dV$$