

Page 1: Mathematical Symbols Test

Summation: $\Sigma(i=1 \text{ to } n) x_i$

Integration: $\int[a,b] f(x)dx$

Greek letters: $\alpha \beta \gamma \delta \theta \lambda \mu \pi \sigma \omega$

Operators: $\pm \times \div \approx \neq \leq \geq \infty$

Sets: $\in \notin \subseteq \cup \cap$

Gradient: $\nabla f(x,y,z)$

Partial derivative: $\partial f / \partial x$

Page 2: Physics Equations with Symbols

Maxwell: $\nabla \times \mathbf{B} = \mu_0 \mathbf{J} + \mu_0 \epsilon_0 \frac{\partial \mathbf{E}}{\partial t}$

Gauss law: $\nabla \cdot \mathbf{E} = \rho / \epsilon_0$

Schrodinger: $i \hbar \frac{\partial \psi}{\partial t} = \hat{H} \psi$

Wave function: $\int |\psi|^2 dx = 1$

Energy: $E = mc^2 \pm \Delta E$

Planck: $E = \hbar \omega$ where $\omega \neq 0$

Statistical: $\langle x \rangle = \sum_i p_i x_i$