Some Mathematical Expressions in LaTeX

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1

$$\left. \begin{array}{l} f \triangle E \bot \mathcal{R} \triangle \mathcal{G} \\ f = g \ a.e. \\ \exists E \end{array} \right\} \Rightarrow \begin{cases} g \triangle E \bot \mathcal{R} \triangle \mathcal{G} \\ \int_E g(x) dx = \int_E f(x) dx \end{cases}$$

2

$$\int_{E} \lim_{i \to \infty} f_i(x) dx \le \lim_{i \to \infty} \int_{E} f_i(x) dx$$