

$$\times \div \equiv \neq \geq \leq \leq \not\leq \forall \mid \exists \in \notin \ni \pi \theta \alpha \beta \rightarrow \Rightarrow \backslash$$

$$A\backslash B = \{a \in A \mid a \notin B\}$$

$$|x|^2=x^2, |x|\geq 0$$

$$\operatorname{lcm}(x,y) = \text{the smallest positive integer } z \text{ so that } x \mid z \text{ and } y \mid z$$

$$\left(\frac{a}{b}\right)^2=\frac{a^2}{b^2}$$

$$\text{The cross ratio of four numbers is defined to be } (a,b;c,d) = \frac{a-c}{c-b} \bigg/ \frac{a-d}{d-b}$$

$$\text{the dyadic rationals are } \left\{ \frac{a}{2^b} \left| \begin{array}{l} a,b \text{ integral} \end{array} \right. \right\}$$

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$$\text{The permutation group } \mathfrak{S}_n \text{ is defined as } \{\pi \in \mathbb{Z}_n \mid 1 \leq \pi \leq n, \text{ all } \pi_i \text{ distinct}\}$$

$$\text{and has cardinality } n!, \text{ while the power set } \mathcal{P}(n) \text{ is defined as the family of all} \\ \text{subsets of S, and has cardinality } 2^{|S|}.$$