A Random Sample of Mathematical Typesetting

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June 9, 2004

Let be a variable such that $\geq$ and $\leq$. There exists some such that either $=$ or $\neq$, that is:

$$\forall \exists : = \vee \neq$$

Consider vectors $\sim = (, \ldots ,)$ and $\nvdash = \times$. We wish to find some value such that:

$$= \int_0^{\infty} \cdot v \, d$$

Applying the transformation:

$$= \sum_{i=0}^{\infty} \frac{}{c}$$

for some constant c.

We know that one of and is true. Applying a logical reduction:

$$\begin{aligned} \wedge \quad &\Rightarrow \quad \wedge \quad \wedge ! \\ &\Rightarrow \quad \frac{\wedge}{! \prime} \vee \neg \\ &\Rightarrow \quad \bot \end{aligned}$$

It then must logically follow that reduces to:

$$\ln \lim_{z \to 0} \left(1 + \frac{1}{z}\right)^{z} + \sin^2(x) + \cos^2(x) = \sum_{n=0}^{\infty} \frac{\cosh(y) \sqrt{1 - \tanh^2(y)}}{2^n}$$

revealing that $f^2 = g^2$.