

The trident theorem

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Abstract

In this paper, I describe the trident theorem.
The paper ends with "The End"

The trident theorem

The trident theorem states that for reals x , y and z

$$e^{x+y+z} = \sum_{n=0}^{\infty} \sum_{r=0}^{\infty} \sum_{k=0}^{\infty} \frac{n+r}{(n+r)!} C_r^n C_k^n x^r y^k z^{n-k}$$

where

e is the base of natural logarithm
and

$${}^nC_r = \frac{n!}{(n-r)!r!}$$

where

$0! = 1$ and for $n > 0$, $n! = n(n-1)!$

The End