

$\zeta(17)$ and $\zeta(19)$ ver.1

Toshiro Takami*

[Abstract]

I calculated $\zeta(17)$ and $\zeta(19)$.

$\zeta(17)$ and $\zeta(19)$ tended to converge very quickly.

[Discussion]

$$\zeta(17) = \sum_{n=1}^{\infty} \frac{1}{n^{17}} = 1 + \sum_{n=1}^{\infty} \frac{1}{(2n)^{17}} + \sum_{n=1}^{\infty} \frac{1}{(2n+1)^{17}}$$

calculated

$$\zeta(17) = \frac{131072}{131071} \left(1 + \sum_{n=1}^{\infty} \frac{1}{(2n+1)^{17}} \right)$$

$n=1, \zeta(17) \doteq 131072/131071 \cdot (1 + 1/3^{17}) = 131072/131071 \cdot (1 + 1/129140163) =$
 $1.0000076371963228089989 \dots\dots$

$\dots\dots$

$\zeta(17) = 1.00000763719763789976227 \dots\dots$

and,

$$\zeta(19) = \sum_{n=1}^{\infty} \frac{1}{n^{19}} = 1 + \sum_{n=1}^{\infty} \frac{1}{(2n)^{19}} + \sum_{n=1}^{\infty} \frac{1}{(2n+1)^{19}}$$

calculated

$$\zeta(19) = \frac{524288}{524287} \left(1 + \sum_{n=1}^{\infty} \frac{1}{(2n+1)^{19}} \right)$$

n=1, $\zeta(19) \doteq 524288/524287 * (1 + 1/3^{19}) = 524288/524287 * (1 + 1/1162261467) =$
 1.00000190821266403655359801.....

.....

$\zeta(19) = 1.00000190821271655393892.....$

【References】

1) https://en.wikipedia.org/wiki/Riemann_hypothesis

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I am a psychiatrist now and also a doctor of brain surgery before.



(home)

〒854-0067

47-8 kuyamadai, Isahaya City, Nagasaki Prefecture, Japan

mmm82889@yahoo.co.jp

I would like to receive an email. I will not answer the phone.

Currently 56 years old

Born on November 26, 1961

(I am very poor of English. Almost all document are google-translation.)

When converted to English by Google translation, it becomes cryptic to me.

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