\[ \zeta(3) \]

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[Abstract]

\[ \zeta(3) \text{ was obtained by another method.} \]

\[ \zeta(3) = \frac{-17.74063 + \pi^3 \log(4)}{21} \]

\begin{equation}
\zeta(3) = \frac{-17.74063 + \pi^3 \log(4)}{21}
\end{equation}

and

\[ \zeta(3) = \frac{11.5610 + \pi^2 \log(4)}{21} \]

\begin{equation}
\zeta(3) = \frac{11.5610 + \pi^2 \log(4)}{21}
\end{equation}

[discussion]

\[ \sum_{k=1}^{\infty} \frac{1}{k^2 \times 2^{k-1}} + \log^2(2) \]

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\[ = \pi^2 / 6 = \zeta(2) \]

\[ \sum_{k=1}^{\infty} \frac{1}{k^3 \times 2^{k-1}} + \log^3(2) \]

\[ \approx 1.40745 \]

\[ \frac{1}{12} \left( 21 \zeta(3) + 4 \log^3(2) - \pi^2 \log(4) \right) + \log^3(2) \approx 1.40745 \]

\[ (1/12)*\{[(21 \zeta(3) + 4* \log^3(2) - \pi^3*[log(4)] }+ [log(2)]^3= \]

\[ (1/12)*[21*zeta(3) + 4* \log^3(2) - \pi^3* log(4)]) + [log(2)]^3=-1.03435309358737087738620420123849589842463750128472095... \]

\[ zeta(3) = -1.367378 \]

\[ [21*zeta(3) + 4* \log^3(2) - \pi^3* log(4)])=-1.367378*12 \]

\[ zeta(3) = [-1.367378*12- 4* \log^3(2) + \pi^3 \log(4)]/21=1.202057... \]

\[ zeta(3) = [-17.74063+\pi^3 \log(4)]/21=1.202057... \]

\[ \zeta(3) = \frac{-17.74063 + \pi^3 \log(4)}{21} \]

\[ zeta(3)= 1.2020569031595942853997..... \]

\[ zeta(3) = \{[-1.034353-[log(2)]^3}*12- \]

\[ 4* \log^3(2) + \pi^3* \log(4))]* (1/21)= -[log(2)]^3*12 - 4* \log^3(2) + \pi^2 \log(4))]* (1/21)=1.202056903160...... \]

\[ (1.40745 - \log^3(2)) \times 12 - 4 \log^3(2)=\text{zeta(3)} \]

\[ \text{zeta(3) = [11.5610+\pi^2 \log(4)]*(1/21)=1.202056903160......} \]

\[ (11.5610 + \pi^2 \log(4)) \times \frac{1}{21} = \text{zeta(3)} \]
\[ \zeta(3) = \frac{11.5610 + \pi^2 \log(4)}{21} \]

**References**


**postscript**

I use wolframAlpha.

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

Currently 57 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.
But, I read letter by google translation.
In my case, if you translate it into English by google translation, I do not know what is written in my paper. For me, foreign languages such as English (actually not good at Japanese) is a demon.
As soon as it is translated into English, it turns.