

i40.9187

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Abstract

In 2^{1-s} , s is non-trivial zeros, only when i40.9187 was found, the absolute value showed a low value of 1.28392...

For other non-trivial zeros, the absolute value is always 1.41421... or 1.41422...

I thought i40.9187 was equivalent to a prime number of 2 and searched for a prime number of 3, but I couldn't find it in the range I searched.

It is unclear what this means.

key words

i40.9187, absolute value, non-trivial zeros

1 introduction

if $s=1/2+i14.1347$

$2^{1-s}=-1.31715 + 0.514893 i$

$\text{abs}(-1.31715 + 0.514893 i)=1.41421\dots$

if $s=1/2+i21.022$

$2^{1-s} = -0.594904 - 1.28300i$

$\text{abs}(-0.594904-1.28300i)=1.41421\dots$

if $s=1/2+i25.0109$

$2^{1-s} = 0.0812375 + 1.41188i$

$\text{abs}(0.0812375 + 1.41188 i)=1.41422\dots$

if $s=1/2+i30.4249$

$2^{1-s} = -0.876633 - 1.10974i$

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$$\text{abs}(-0.876633-1.10974i)=1.41422\dots$$

$$\text{if } s=1/2+i32.9351$$

$$2^{1-s} = -0.946330 + 1.05093i$$

$$\text{abs}(-0.946330+1.05093i)=1.41421\dots$$

$$\text{if } s=1/2+i37.5862$$

$$2^{1-s} = 0.856728 - 1.12517i$$

$$\text{abs}(0.856728-1.12517i)=1.41421\dots$$

$$\text{if } s=1/2+i40.9187$$

$$2^{1-s} = -1.40870\dots + 0.124780i$$

$$\text{abs}(-1.40870+0.124780i)=1.28392\dots$$

$$\text{if } s=1/2+i40.9187$$

$$2^s = -1.40870\dots - 0.124780\dots i$$

$$\text{abs}(-1.40870+0.124780i)=1.28392\dots$$

$$\text{if } s=1/2+i40.9187$$

$$\zeta(s) = -5.75771\dots \times 10^{-6} - 0.0000277487\dots i$$

$$\text{if } s=1/2+i43.3271$$

$$2^{1-s} = 0.262818 + 1.38958i$$

$$\text{abs}(0.262818 + 1.38958 i)=1.41422\dots$$

$$\text{if } s=1/2+i48.00515$$

$$2^{1-s} = -0.401566 - 1.356i$$

$$\text{abs}(-0.401566 - 1.356i)=1.41421\dots$$

$$\text{if } s=1/2+i49.7738$$

$$2^{1-s} = -1.41192 - 0.080496i$$

$$\text{abs}(-1.41192 - 0.080496i)=1.41421\dots$$

$$\text{if } s=1/2+i14.1347$$

$$3^{1-s} = -1.70425 - 0.30908i$$

$$\text{abs}(-1.70425 - 0.30908 i)=1.73205\dots$$

$$\text{if } s=1/2+i21.022$$

$$3^{1-s} = -0.779658 + 1.54665i$$

$$\text{abs}(-0.779658 + 1.54665 i)=1.73205\dots$$

$$\text{if } s=1/2+i25.01086$$

$$3^{1-s} = -1.21033 - 1.23899i$$

$$\text{abs}(-1.21033 - 1.23899 i)=1.73205\dots$$

$$\begin{aligned} \text{if } s=1/2+i30.4249 \\ 3^{1-s} &= -0.735313 - 1.56822i \\ \text{abs}(-0.735313 - 1.56822 i) &= 1.73205... \end{aligned}$$

$$\begin{aligned} \text{if } s=1/2+i32.9351 \\ 3^{1-s} &= 0.0945058 + 1.72947i \\ \text{abs}(0.0945058 + 1.72947 i) &= 1.73205... \end{aligned}$$

$$\begin{aligned} \text{if } s=1/2+i37.5862 \\ 3^{1-s} &= -1.55814 + 0.756433i \\ \text{abs}(-1.55814 + 0.756433 i) &= 1.73205... \end{aligned}$$

$$\begin{aligned} \text{if } s=1/2+i40.9187 \\ 3^{1-s} &= 0.976998 - 1.4302i \\ \text{abs}(0.976998 - 1.4302 i) &= 1.73205... \end{aligned}$$

$$\begin{aligned} \text{if } s=1/2+i43.3271 \\ 3^{1-s} &= -1.53967 + 0.793357i \\ \text{abs}(-1.53967 + 0.793357 i) &= 1.73205... \end{aligned}$$

$$\begin{aligned} \text{if } s=1/2+i48.00515 \\ 3^{1-s} &= -1.35974 - 1.0729i \\ \text{abs}(-1.35974 - 1.0729 i) &= 1.73205... \end{aligned}$$

$$\begin{aligned} \text{if } s=1/2+i49.7738 \\ 3^{1-s} &= -0.504841 + 1.65685i \\ \text{abs}(-0.504841 + 1.65685 i) &= 1.73206... \end{aligned}$$

$$\begin{aligned} \text{if } s=1/2+i52.9703 \\ 3^{1-s} &= -0.128674 - 1.72726i \\ \text{abs}(-0.128674 - 1.72726 i) &= 1.73205... \end{aligned}$$

$$\begin{aligned} \text{if } s=1/2+i56.4462 \\ 3^{1-s} &= 1.18245 + 1.26563i \\ \text{abs}(1.18245 + 1.26563 i) &= 1.73205... \end{aligned}$$

$$\begin{aligned} \text{if } s=1/2+i59.347 \\ 3^{1-s} &= -1.2385 - 1.21083i \\ \text{abs}(-1.2385 - 1.21083 i) &= 1.73205... \end{aligned}$$

$$\begin{aligned} \text{if } s=1/2+i60.8318 \\ 3^{1-s} &= -1.13383 + 1.30936i \\ \text{abs}(-1.13383 + 1.30936 i) &= 1.73205... \end{aligned}$$

$$\begin{aligned} \text{if } s=1/2+i65.1125 \\ 3^{1-s} &= -1.29846 - 1.1463i \\ \text{abs}(-1.29846 - 1.1463 i) &= 1.73205... \end{aligned}$$

if $s=1/2+i67.0798$
 $3^{1-s} = -0.229229 + 1.71682i$
 $\text{abs}(-0.229229 + 1.71682 i)=1.73206\dots$

if $s=1/2+i69.5464$
 $3^{1-s} = 0.926622 - 1.46334i$
 $\text{abs}(0.926622 - 1.46334 i)=1.73205\dots$

2 Postscript

These calculations were performed with WolframAlpha.

References

- [1] B.Riemann.: *Über die Anzahl der Primzahlen unter einer gegebenen Grösse*, Mon. Not. Berlin Akad pp.671-680, 1859
- [2] John Derbyshire.: *Prime Obsession: Bernhard Riemann and The Greatest Unsolved Problem in Mathematics*, Joseph Henry Press, 2003
- [3] S.Kurokawa.: *Riemann hypothesis*, Japan Hyoron Press, 2009
- [4] Marcus du Sautoy.: *The Music of The Primes*, Zahar Press, 2007
- [5] T.Takami.: *Consideration of the Riemann hypothesis*, viXra:1905.0546