

Review article

Investigated prime numbers corresponding to trivial zeros of Riemann hypothesis

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Abstract

At first, each prime number was related to each non-trivial zero point, we thought from equation (2).

However, when calculated, it turned out that each prime number is not related to the nontrivial zeros, and is related to trivial zeros.

Introduction

$$\zeta(s) = \sum_{n=1}^{\infty} \frac{1}{n^s} \quad (1)$$

$$\zeta(s) = \frac{2^s}{2^s - 1} \frac{3^s}{3^s - 1} \frac{5^s}{5^s - 1} \frac{7^s}{7^s - 1} \dots \quad (2)$$

We started searching by considering that one or more of the prime numbers infinitely following 2^s , 3^s , 5^s , 7^s , 11^s in equation (2) should be close to zero.

$\zeta[17^{(0.5+21.022i)}]$

As in the above example, we set a star on which non-trivial zeros and which prime numbers correspond.

And we prepared a correspondence table like the one below, but it turned out finally that it corresponded to obvious zero point in the end.

The one closest to zero was taken as the prime number corresponding to the nontrivial zero point.

I chose the one with the smallest value at which non-trivial zero, as shown below, and attached a star. Then it became as follows.

Marks that are close to trivial zero points.

$\zeta[17^{(0.5+21.022i)}]$

It was almost the same as what I had attached a star on.

We found that s of prime numbers such as 2^s , 3^s , 5^s , 7^s , 11^s , 13^s in equation (2) are associated with trivial zero points.

I got it in the previous manuscript

$\zeta[17^{(0.5+21.022i)}]$ etc.

There is nothing in the form of the form which takes a value which almost agrees with the trivial zero point other than the one taking a very low value.

For example,

$\zeta[7^{(0.5+i98.8312)}]$

0.0641562... -

0.00343108... *i*

(using the principal branch of the logarithm for complex exponentiation)

$7^{(0.5+i98.8312)} = -2.05812... - 1.66257... i$ ----- (a)

$\zeta[17^{(0.5+21.022i)}]$

$$- 0.00168725... + \\ 0.00422886... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$17^{(0.5+21.022i)} = -4.08807... + 0.536333... i \text{----- (b)}$$

$$\text{Zeta}[17^{(0.5+i105.447)}]$$

$$- 0.00479939... - \\ 0.0138017... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$17^{(0.5+i105.447)} = -3.93584... - 1.22848... i \text{----- (c)}$$

(a) (b) (c) are relation consist.

Also, as shown below, if (prime)^s is very close to 0,

$$\text{zeta}[2^{(0.5 + i 25.0109)}] =$$

Its value is not close to 0 as shown in Fig.

$$\text{zeta}[2^{(0.5+i25.0109)}] =$$

$$0.189967... + \\ 0.381792... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$2^{(0.5+i25.0109)} = 0.0812375... - 1.41188... i$$

and,

$$\text{zeta}[3^{(0.5+i32.93506)}]$$

$$0.281268... + \\ 0.310896... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$3^{(0.5+i32.93506)} = 0.0944298... - 1.72947... i$$

I wrote in the previous manuscript as follows. But this was a mistake.

$$T_1 = 14.1347... \text{.....Correspond to primary number } 3, 17$$

$T_2=21.022\dots$ Correspond to primary number 17

$T_3=25.0108\dots$ Correspond to primary number 23, 31

$T_4=30.4248\dots$ Correspond to primary number 37

$T_5=32.9350\dots$ Correspond to primary number 41, 73, 107

$T_6=37.5861\dots$ Correspond to primary number 45, 71

$T_7=40.9187\dots$ Correspond to primary number 37

$T_8=43.3270\dots$ Correspond to primary number 17

$T_9=48.0051\dots$ Correspond to primary number 19

$T_{10}=49.7738\dots$ Correspond to primary number 17

$T_{11}=52.9703\dots$ Correspond to primary number 53

$T_{12}=56.4462\dots$ Correspond to primary number 17

$T_{13}=59.3470\dots$ Correspond to primary number 53, 59

$T_{14}=60.8317\dots$ Correspond to primary number 19

$T_{15}=65.1125\dots$ Correspond to primary number 19, 23, 41

$T_{16}=67.0798\dots$ Correspond to primary number 2, 23, 71

$T_{17}=69.5464\dots$ Correspond to primary number 61

$T_{18}=72.0672\dots$ Correspond to primary number 11, 17

$T_{19}=75.7047\dots$ Correspond to primary number 7, 19, 23

$T_{20}=77.1448\dots$ Correspond to primary number 13

$T_{21}=79.3374\dots$ Correspond to primary number 13, 29

$T_{22}=82.9104\dots$ Correspond to primary number 67

$T_{23}=84.7355\dots$ Correspond to primary number 71, 103

$T_{24}=87.4253\dots$ Correspond to primary number 17

.....
.....
.....

Discussion

$$2^{(0.5+i14.1347)} = -1.31715\dots - 0.514893\dots i$$

$$2^{(0.5+i21.022)} = -0.594904\dots + 1.28300\dots i$$

$$\text{zeta}[2^{(0.5+i25.0109)}] =$$

$$0.189967\dots +$$

$$0.381792\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$2^{(0.5+i25.0109)} = 0.0812375\dots - 1.41188\dots i \dots \text{££££}$$

$$2^{(0.5+i30.4249)} = -0.876633\dots + 1.10974\dots i$$

$$2^{(0.5+i32.93506)} = -0.946359\dots - 1.05091\dots i$$

$$2^{(0.5+i37.9351)} = 0.562331\dots + 1.29761\dots i$$

$$2^{(0.5+i40.9187)} = -1.40870\dots - 0.124780\dots i$$

$$\text{Zeta}[2^{(0.5+i67.0798)}]$$

$$- 0.00129934... - \\ 0.0860652... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$2^{(0.5+i67.0798)} = -1.14462... + 0.830564... i$$

$$\text{zeta}[3^{(0.5+i14.134725i)}]$$

$$- 0.00777612... - \\ 0.0161051... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$3^{(0.5+i14.1347)} = -1.70425... + 0.309080... i$$

$$3^{(0.5+i21.022)} = -0.779658... - 1.54665... i$$

$$3^{(0.5+i25.0109)} = -1.21039... + 1.23893... i$$

$$3^{(0.5+i30.4249)} = -0.735313... + 1.56822... i$$

$$\text{zeta}[3^{(0.5+i32.93506)}]$$

$$0.281268... + \\ 0.310896... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$3^{(0.5+i32.93506)} = 0.0944298... - 1.72947... i \dots \dots \dots \text{££££}$$

$$3^{(0.5+i37.9351)} = -1.16218... - 1.28427... i$$

$$3^{(0.5+i40.9187)} = 0.976998... + 1.43020... i$$

$$\text{Zeta}[3^{(0.5+i88.8091)}]$$

$$- 0.00784321... + \\ 0.0159240... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$3^{(0.5+i88.8091)} = -1.70487... - 0.305650... i$$

$$\text{Zeta}[3^{(0.5+i94.6513)}]$$

$$- 0.00150555... + 0.0285500... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$3^{(0.5+i94.6513)} = -1.64815... - 0.532538... i$$

$$\text{Zeta}[3^{(0.5+i105.447)}]$$

$$0.00407240... - 0.0365246... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$3^{(0.5+i105.447)} = -1.59964... + 0.664202... i$$

$$5^{(0.5+i14.1347)} = -1.62421... - 1.53686... i$$

$$5^{(0.5+i21.022)} = -1.67530... + 1.48100... i$$

$$5^{(0.5+i25.0109)} = -1.86150... + 1.23888... i$$

$$5^{(0.5+i30.4249)} = 0.601388... - 2.15368... i$$

$$\text{zeta}[5^{(0.5+i32.93506)}]$$

$$0.0228509... - 0.0152426... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$5^{(0.5+i32.93506)} = -2.05943... + 0.871056... i \dots \text{££}$$

$$5^{(0.5+i37.9351)} = -0.459280... - 2.18839... i$$

$$5^{(0.5+i40.9187)} = -2.22069... + 0.261775... i$$

$$7^{(0.5+i14.1347)} = -1.90037... + 1.84081... i \dots \text{££}$$

$$7^{(0.5+i21.022)} = -2.63995... - 0.175070... i$$

$$7^{(0.5+i25.0109)} = -0.0680465... - 2.64488... i \dots \text{££££}$$

Zeta[7^(0.5 + i30.4249)]

0.0343388... +
0.00102265... i

(using the principal branch of the logarithm for complex exponentiation)

7^(0.5+i30.4249)=-2.33922... + 1.23614... i

7^(0.5+i32.93506)=0.817136... + 2.51640... i

7^(0.5+i37.9351)=-0.0241587... - 2.64564... i..... ££££

7^(0.5+i40.9187)=-1.23698... - 2.33878... i

Zeta[7^(0.5+ i56.4462)]

0.0103638... -
0.000507636... i

(using the principal branch of the logarithm for complex exponentiation)

7^(0.5+ i56.4462)= -2.62781... + 0.307558... i

Zeta[7^(0.5+i75.7047)]

0.0206367... -
0.000331857... i

(using the principal branch of the logarithm for complex exponentiation)

7^(0.5+i75.7047)=-2.49402... + 0.883099... i

Zeta[7^(0.5+i88.8091)]

0.00916273... +
0.000130047... i

(using the principal branch of the logarithm for complex exponentiation)

7^(0.5+i88.8091)=-2.64479... - 0.0712496... i

Zeta[7^(0.5+i98.8312)]

0.0641562... -
0.00343108... i

(using the principal branch of the logarithm for complex exponentiation)

$$7^{(0.5+i98.8312)} = -2.05812... - 1.66257... i \dots \text{££}$$

$$11^{(0.5+i14.1347)} = -2.61198... + 2.04391... i$$

$$11^{(0.5+i21.022)} = 3.28274... + 0.472899... i$$

$$11^{(0.5+i25.0109)} = -3.18446... - 0.926949... i$$

$$11^{(0.5+i30.4249)} = -2.53863... - 2.13433... i$$

$$11^{(0.5+i32.93506)} = -3.00774... - 1.39769... i$$

$$11^{(0.5+i37.9351)} = -3.28334... + 0.468690... i$$

$$11^{(0.5+i40.9187)} = -2.47282... - 2.21024... i$$

$$\text{Zeta}[11^{(0.5+i72.0672)}]$$

0.00609060... -
0.000619707... i

(using the principal branch of the logarithm for complex exponentiation)

$$11^{(0.5+i72.0672)} = -3.31582... - 0.0729673... i$$

$$13^{(0.5+i14.1347)} = 0.454794... - 3.57675... i$$

$$13^{(0.5+i21.022)} = -3.14092... - 1.77049... i$$

$$13^{(0.5+i25.0109)} = 0.895372... + 3.49261... i$$

$$\text{Zeta}[13^{(0.5 + i30.4249)}]$$

0.0138046... +
0.0340545... i

(using the principal branch of the logarithm for complex exponentiation)

$$13^{(0.5+i30.4249)} = -3.16159\dots + 1.73330\dots i$$

$$13^{(0.5+i32.93506)} = -3.39158\dots + 1.22359\dots i$$

$$13^{(0.5+i37.9351)} = -3.59167\dots + 0.316024\dots i$$

$$13^{(0.5+i40.9187)} = -1.02742\dots - 3.45607\dots i$$

$$\text{Zeta}[13^{(0.5+i77.1448)}]$$

$$0.00350448\dots + \\ 0.00160768\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$13^{(0.5+i77.1448)} = -3.60143\dots + 0.172395\dots i$$

$$17^{(0.5+i14.1347)} = -2.89004\dots + 2.94069\dots i$$

$$\text{zeta}[17^{(0.5+21.022i)}]$$

$$-0.00168725\dots + \\ 0.00422886\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$17^{(0.5+i21.022)} = -4.08807\dots + 0.536333\dots i \dots \dots \dots \pounds\pounds$$

$$\text{Zeta}[17^{(0.5+i43.3271)}]$$

$$-0.00329615\dots - \\ 0.00902419\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$17^{(0.5+i43.3271)} = -4.01188\dots - 0.951230\dots i \dots \dots \dots \pounds\pounds$$

$$\text{Zeta}[17^{(0.5+i49.7738)}]$$

$$-0.00594552\dots + \\ 0.0182577\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$17^{(0.5+i49.7738)} = -3.87048\dots + 1.42106\dots i \dots \dots \dots \pounds\pounds$$

Zeta[17^(0.5+i56.4462)]

$$-0.00467447... + 0.0133697... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$17^{(0.5+i56.4462)} = -3.94247... + 1.20703... i \dots \text{££}$$

Zeta[17^(0.5+i72.0672)]

$$-0.000957110... + 0.000647963... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$17^{(0.5+i72.0672)} = -4.12213... + 0.0897520... i \dots \text{££}$$

Zeta[17^(0.5+i87.4253)]

$$-0.00811662... + 0.0376495... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$17^{(0.5+i87.4253)} =$$

Zeta[17^(0.5+i98.8312)]

$$-0.00715370... - 0.0247301... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$17^{(0.5+i98.8312)} = -3.78446... - 1.63643... i$$

Zeta[17^(0.5+i87.4253)]

$$-0.00811662... + 0.0376495... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$17^{(0.5+i87.4253)} = -3.63544... + 1.94514... i$$

$$17^{(0.5+i98.8312)} = -3.78446... - 1.63643... i$$

Zeta[17^(0.5+i105.447)]

$$-0.00479939... - 0.0138017... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$17^{(0.5+i105.447)} = -3.93584... - 1.22848... i \dots \text{££}$$

$$19^{(0.5+i14.1347)} = -3.10475... - 3.05950... i$$

$$19^{(0.5+i21.022)} = 2.59240... - 3.50420... i$$

$$19^{(0.5+i25.0109)} = -0.799056... - 4.28503... i$$

$$19^{(0.5+i30.4249)} = -0.212938... + 4.35369... i$$

$$\text{zeta}[19^{(0.5+i32.93506)}]$$

$$-0.0148318... + 0.0235496... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$19^{(0.5+i32.93506)} = -3.99048... + 1.75386... i \dots \text{££}$$

$$19^{(0.5+i37.9351)} = 0.741950... - 4.29529... i$$

$$19^{(0.5+i40.9187)} = 1.96904... + 3.88882... i$$

$$\text{Zeta}[19^{(0.5+i48.0052)}]$$

$$-0.00246183... + 0.000545302... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$19^{(0.5+i48.0052)} = -4.35772... + 0.101498... i \text{-----££}$$

$$\text{Zeta}[19^{(0.5+i60.8318)}]$$

$$-0.00256410... - 0.00105746... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$19^{(0.5+i60.8318)} = -4.35454... - 0.194960... i$$

Zeta[19^(0.5+i65.1125)]

- 0.00290438... -
0.00201341... *i*

(using the principal branch of the logarithm for complex exponentiation)

19^(0.5+i65.1125) = -4.34403... - 0.359771... *i*

Zeta[19^(0.5+i75.7047)]

- 0.00392689... +
0.00386380... *i*

(using the principal branch of the logarithm for complex exponentiation)

19^(0.5+i75.7047) = -4.31302... + 0.630729... *i*

Zeta[19^(0.5+i103.726)]

- 0.0179525... -
0.0909911... *i*

(using the principal branch of the logarithm for complex exponentiation)

19^(0.5+i103.726) = -3.38829... - 2.74217... *i*

Zeta[23^(0.5+i65.1125)]

- 0.00409631... +
0.000282556... *i*

(using the principal branch of the logarithm for complex exponentiation)

23^(0.5+i65.1125) = -4.79126... + 0.209297... *i*

23^(0.5+i14.1347) = 4.52611... + 1.58565... *i*

zeta[23^(0.5+21.022i)]

- 0.00426582... +
0.000390879... *i*

(using the principal branch of the logarithm for complex exponentiation)

23^(0.5+i21.022) = -4.78746... + 0.283203... *i*

$\text{zeta}[23^{(0.5+25.010856i)}]$

$-0.00542481\dots +$
 $0.000903443\dots i$

(using the principal branch of the logarithm for complex exponentiation)

$23^{(0.5+i25.0109)} = -4.76232\dots + 0.565949\dots i$

$23^{(0.5+i30.4249)} = 1.96202\dots + 4.37613\dots i$

$23^{(0.5+i32.93506)} = -4.40811\dots + 1.88906\dots i$

$23^{(0.5+i37.9351)} = 4.34872\dots - 2.02203\dots i$

$23^{(0.5+i40.9187)} = -4.19730\dots + 2.32006\dots i$

$\text{Zeta}[23^{(0.5+i67.0798)}]$

$-0.00670157\dots +$
 $0.00139597\dots i$

(using the principal branch of the logarithm for complex exponentiation)

$23^{(0.5+i67.0798)} = -4.73581\dots + 0.756406\dots i$

$\text{Zeta}[23^{(0.5+i101.318)}]$

$-0.0235315\dots -$
 $0.0113253\dots i$

(using the principal branch of the logarithm for complex exponentiation)

$23^{(0.5+i101.318)} = -4.45168\dots - 1.78397\dots i$

$29^{(0.5+i14.1347)} = -4.79678\dots - 2.44763\dots i$

$29^{(0.5+i21.022)} = -0.545432\dots + 5.35747\dots i$

$29^{(0.5+i25.0109)} = -4.43267\dots + 3.05801\dots i$

$29^{(0.5+i30.4249)} = -1.83582\dots + 5.06258\dots i$

$29^{(0.5+i32.93506)} = -3.14844\dots - 4.36891\dots i$

$$29^{(0.5+i37.9351)} = -2.60162\dots + 4.71504\dots i$$

$$29^{(0.5+i40.9187)} = 4.86138\dots - 2.31667\dots i$$

$$\text{Zeta}[29^{(0.5+i79.3374)}]$$

$$-0.00469921\dots + \\ 0.00245197\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$29^{(0.5+i79.3374)} = -5.34827\dots - 0.629273\dots i$$

$$31^{(0.5+i14.1347)} = -0.866742\dots - 5.49989\dots i$$

$$\text{zeta}[31^{(0.5+21.022i)}]$$

$$-0.00279262\dots - \\ 0.00182197\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$31^{(0.5+i21.022)} = -5.55514\dots + 0.374717\dots i$$

$$\text{zeta}[31^{(0.5+25.010856i)}]$$

$$0.00199035\dots - \\ 0.507631\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$31^{(0.5+i25.0109)} = -2.70194\dots - 4.86821\dots i$$

$$31^{(0.5+i30.4249)} = -3.85442\dots - 4.01789\dots i$$

$$31^{(0.5+i32.93506)} = 5.56776\dots + 0.00689896\dots i$$

$$31^{(0.5+i37.9351)} = -0.597090\dots - 5.53566\dots i$$

$$31^{(0.5+i40.9187)} = -3.64367\dots + 4.20995\dots i$$

$$\text{Zeta}[37^{(0.5 + i30.4249)}]$$

0.000376748... -
0.00374031... *i*

(using the principal branch of the logarithm for complex exponentiation)

$$37^{(0.5+i30.4249)} = -6.05595... + 0.570493... i \dots \dots \dots \text{££}$$

Zeta[37^(0.5+i40.9187)]

0.000356135... +
0.00399719... *i*

(using the principal branch of the logarithm for complex exponentiation)

$$37^{(0.5+i40.9187)} = -6.05285... - 0.602494... i \dots \dots \dots \text{££}$$

Zeta[37^(0.5+i75.7047)]

0.000473048... +
0.00164874... *i*

(using the principal branch of the logarithm for complex exponentiation)

$$37^{(0.5+i75.7047)} = -6.07663... - 0.273003... i \dots \dots \dots \text{££}$$

$$41^{(0.5+i14.1347)} = -3.89518... + 5.08208... i$$

$$41^{(0.5+i21.022)} = -5.69979... + 2.91760... i$$

$$41^{(0.5+i25.0109)} = 1.28965... - 6.27191... i$$

$$41^{(0.5+i30.4249)} = 6.36281... - 0.717413... i$$

Zeta[41^(0.5 + i32.9351)]

0.00424173... -
0.0133719... *i*

(using the principal branch of the logarithm for complex exponentiation)

$$41^{(0.5+i32.93506)} = -6.25516... + 1.36856... i$$

$$41^{(0.5+i37.9351)} = -5.62863... + 3.05262... i$$

$$41^{(0.5+i40.9187)} = 2.56821... + 5.86552... i$$

Zeta[41^(0.5+i65.1125)]

0.00299627... -
0.00397987... *i*

(using the principal branch of the logarithm for complex exponentiation)

41^(0.5+i65.1125) = -6.36940... + 0.656274... *i*

Zeta[41^(0.5+i88.8091)]

0.00260913... -
0.00240421... *i*

(using the principal branch of the logarithm for complex exponentiation)

41^(0.5+i88.8091) = -6.38822... + 0.436582... *i*

43^(0.5+i14.1347) = -6.36377... + 1.58189... *i*

43^(0.5+i21.022) = -5.66399... - 3.30443... *i*

43^(0.5+i25.0109) = 6.45524... - 1.15319... *i*

43^(0.5+i30.4249) = 1.52044... + 6.37874... *i*

43^(0.5+i32.93506) = -1.41540... - 6.40286... *i*

Zeta[43^(0.5+i37.5862)]

0.00300250... -
0.0000686345... *i*

(using the principal branch of the logarithm for complex exponentiation)

43^(0.5+i37.9351) = -1.69189... - 6.33542... *i*

Zeta[43^(0.5+i40.9187)]

0.00314049... -
0.000995255... *i*

(using the principal branch of the logarithm for complex exponentiation)

43^(0.5+i40.9187) = -6.55351... + 0.226979... *i*

$$47^{(0.5+i14.1347)} = -3.62529\dots - 5.81870\dots i$$

$$47^{(0.5+i21.022)} = 5.04598\dots - 4.64091\dots i$$

$$47^{(0.5+i25.0109)} = -3.14803\dots + 6.09015\dots i$$

$$47^{(0.5+i30.4249)} = -4.25387\dots - 5.37630\dots i$$

$$47^{(0.5+i32.93506)} = 2.85580\dots + 6.23253\dots i$$

$$\text{zeta}[47^{(0.5+i37.9351)}]$$

$$0.979943\dots +$$

$$0.458201\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$47^{(0.5+i37.9351)} = 0.194154\dots + 6.85290\dots i \text{-----}\mathbb{E}\mathbb{E}\mathbb{E}\mathbb{E}$$

$$47^{(0.5+i40.9187)} = 6.13264\dots + 3.06444\dots i$$

$$53^{(0.5+i14.1347)} = 6.61803\dots - 3.03343\dots i$$

$$53^{(0.5+i21.022)} = -1.52666\dots + 7.11824\dots i$$

$$53^{(0.5+i25.0109)} = 2.43061\dots - 6.86237\dots i$$

$$53^{(0.5+i30.4249)} = 1.12810\dots + 7.19218\dots i$$

$$53^{(0.5+i32.93506)} = 2.73888\dots - 6.74526\dots i$$

$$53^{(0.5+i37.9351)} = 7.15851\dots - 1.32503\dots i$$

$$53^{(0.5+i40.9187)} = 4.50463\dots - 5.71911\dots i$$

$$\text{Zeta}[53^{(0.5+i52.9703)}]$$

0.0149725... -
0.000195837... i

(using the principal branch of the logarithm for complex exponentiation)

Zeta[53^(0.5+i59.347)]

0.00398829... -
0.0000834760... i

(using the principal branch of the logarithm for complex exponentiation)

53^(0.5+i59.347) = -7.28000... - 0.0397869... i

59^(0.5+i14.1347) = 3.57895... + 6.79641... i

59^(0.5+i21.022) = -4.80476... - 5.99285... i

59^(0.5+i25.0109) = 0.910985... + 7.62693... i

59^(0.5+i30.4249) = -0.262957... - 7.67664... i

59^(0.5+i32.93506) = -5.38149... + 5.48084... i

59^(0.5+i37.9351) = -5.65282... - 5.20054... i

59^(0.5+i40.9187) = -7.23341... - 2.58415... i

61^(0.5+i14.1347) = 0.105398... + 7.80954... i

61^(0.5+i21.022) = 0.195177... - 7.80781... i

61^(0.5+i25.0109) = -5.11991... + 5.89801... i

61^(0.5+i30.4249) = 6.48646... - 4.35038... i

61^(0.5+i32.93506) = -7.45354... - 2.33339... i

61^(0.5+i37.9351) = 3.30955... - 7.07438... i

61^(0.5+i40.9187) = 1.06208... - 7.73770... i

Zeta[61^(0.5+i69.5464)]

0.00150589... -
0.000642545... i

(using the principal branch of the logarithm for complex exponentiation)

61^(0.5+i69.5464) = -7.80973... - 0.0901801... i..... ££

Zeta[61^(0.5+i92.4919)]

0.00385385... -
0.00541860... i

(using the principal branch of the logarithm for complex exponentiation)

61^(0.5+i92.4919) = -7.77876... - 0.700599... i

67^(0.5+i14.1347) =

67^(0.5+i21.022) =

67^(0.5+i25.0109) =

67^(0.5+i30.4249) =

67^(0.5+i32.93506) =

67^(0.5+i37.9351) =

67^(0.5+i40.9187) =

Zeta[67^(0.5+i82.9104)]

0.000173911... +
0.00945142... i

(using the principal branch of the logarithm for complex exponentiation)

67^(0.5+i82.9104) = -8.14109... + 0.850049... i..... ££

71^(0.5+i14.1347) = -7.13264... - 4.48614... i

$$71^{(0.5+i21.022)} = -0.628560\dots + 8.40267\dots i$$

$$71^{(0.5+i25.0109)} = 8.25703\dots - 1.67972\dots i$$

$$71^{(0.5+i30.4249)} = -5.32764\dots - 6.52811\dots i$$

$$71^{(0.5+i32.93506)} = -4.69319\dots + 6.99814\dots i$$

$$\text{Zeta}[71^{(0.5+i37.5862)}]$$

$$- 0.00377584\dots + \\ 0.000244294\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$71^{(0.5+i37.9351)} = -0.730759\dots - 8.39440\dots i$$

$$71^{(0.5+i40.9187)} = 0.546699\dots - 8.40840\dots i$$

$$\text{Zeta}[71^{(0.5+i67.0798)}]$$

$$- 0.00394804\dots - \\ 0.00445630\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$71^{(0.5+i67.0798)} = -8.41351\dots - 0.461372\dots i$$

$$\text{Zeta}[71^{(0.5+i84.7355)}]$$

$$- 0.00400509\dots + \\ 0.00749742\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$71^{(0.5+i84.7355)} = -8.39725\dots + 0.697261\dots i$$

$$73^{(0.5+i14.1347)} = -4.94139\dots - 6.97013\dots i$$

$$73^{(0.5+i21.022)} = -5.22934\dots + 6.75677\dots i$$

$$73^{(0.5+i25.0109)} = 7.52210\dots + 4.05192\dots i$$

$$73^{(0.5+i30.4249)} = 1.36716\dots - 8.43391\dots i$$

Zeta[73^(0.5 + i32.9351)]

- 0.00544337... +
0.00533338... *i*

(using the principal branch of the logarithm for complex exponentiation)

73^(0.5+i32.93506) = -8.52589... + 0.556080... *i*

73^(0.5+i37.9351) = 7.03324... - 4.85114... *i*

73^(0.5+i40.9187) = 7.96838... - 3.08300... *i*

Zeta[73^(0.5+i95.8706)]

0.00514231... +
0.0448668... *i*

(using the principal branch of the logarithm for complex exponentiation)

73^(0.5+i95.8706) = -8.33860... + 1.86219... *i*

Zeta[73^(0.5+i98.8312)]

- 0.00576129... +
0.00751641... *i*

(using the principal branch of the logarithm for complex exponentiation)

73^(0.5+i98.8312) = -8.51405... + 0.714751... *i*

79^(0.5+i14.1347) = 4.25949... - 7.80107... *i*

79^(0.5+i21.022) = -6.51341... - 6.04777... *i*

79^(0.5+i25.0109) = -6.95615... + 5.53281... *i*

79^(0.5+i30.4249) = 4.85364... + 7.44595... *i*

79^(0.5+i32.93506) = 7.30937... - 5.05698... *i*

79^(0.5+i37.9351) = -6.50963... + 6.05183... *i*

$$79^{(0.5+i40.9187)} = -8.54534\dots + 2.44481\dots i$$

$$\text{Zeta}[79^{(0.5+i101.318)}]$$

$$-0.00478849\dots + 0.0884729\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$79^{(0.5+i101.318)} = -8.58752\dots + 2.29225\dots i$$

$$83^{(0.5+i14.1347)} = 8.48443\dots - 3.31881\dots i$$

$$83^{(0.5+i21.022)} = 1.95155\dots - 8.89896\dots i$$

$$83^{(0.5+i25.0109)} = -7.70218\dots - 4.86584\dots i$$

$$83^{(0.5+i30.4249)} = -7.27631\dots + 5.48228\dots i$$

$$83^{(0.5+i32.93506)} = 4.75630\dots + 7.77030\dots i$$

$$\text{zeta}[83^{(0.5+i37.9351)}]$$

$$-0.263299\dots - 4.08528\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$83^{(0.5+i37.9351)} = -3.93026\dots - 8.21907\dots i$$

$$83^{(0.5+i40.9187)} = 1.55601\dots - 8.97657\dots i$$

$$89^{(0.5+i14.1347)} = 7.71263\dots + 5.43280\dots i$$

$$89^{(0.5+i21.022)} = 9.37452\dots + 1.05753\dots i$$

$$89^{(0.5+i25.0109)} = 6.34934\dots - 6.97753\dots i$$

$$89^{(0.5+i30.4249)} = -0.875793\dots - 9.39324\dots i$$

$$89^{(0.5+i32.93506)} = -9.28383\dots - 1.67646\dots i$$

$$89^{(0.5+i37.9351)} = 7.61810\dots + 5.56458\dots i$$

$$89^{(0.5+i40.9187)} = 1.07319\dots + 9.37274\dots i$$

$$\text{Zeta}[89^{(0.5+i95.8706)}]$$

$$- 0.0126630\dots - \\ 0.00293894\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$89^{(0.5+i95.8706)} = -9.41092\dots + 0.659196\dots i$$

$$\text{Zeta}[91^{(0.5+i56.4462)}]$$

$$- 0.0397867\dots - \\ 0.0000459311\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$91^{(0.5+i56.4462)} = -9.42959\dots - 1.44321\dots i$$

$$97^{(0.5+i14.1347)} = -2.52736\dots + 9.51906\dots i$$

$$97^{(0.5+i21.022)} = -3.38639\dots + 9.24837\dots i$$

$$97^{(0.5+i25.0109)} = 2.44135\dots + 9.54148\dots i$$

$$97^{(0.5+i30.4249)} = 5.68841\dots + 8.04003\dots i$$

$$97^{(0.5+i32.93506)} = 9.76820\dots - 1.25787\dots i$$

$$97^{(0.5+i37.9351)} = -7.17586\dots - 6.74588\dots i$$

$$97^{(0.5+i40.9187)} = 2.59341\dots - 9.50127\dots i$$

$$101^{(0.5+i14.1347)} = -7.42083\dots + 6.77726\dots i$$

$$101^{(0.5+i21.022)} = -9.36865\dots + 3.63708\dots i$$

$$101^{(0.5+i25.0109)} = -6.92493\dots + 7.28322\dots i$$

$$101^{(0.5+i30.4249)} = -5.78774\dots + 8.21596\dots i$$

$$101^{(0.5+i32.93506)} = 3.61519\dots + 9.37712\dots i$$

$$101^{(0.5+i37.9351)} = 6.60151\dots - 7.57761\dots i$$

$$101^{(0.5+i40.9187)} = 9.44343\dots + 3.43827\dots i$$

$$103^{(0.5+i14.1347)} = -9.08065\dots + 4.53232\dots i$$

$$\text{zeta}[103^{(0.5+i21.022)}]$$

$$0.00136307\dots +$$

$$0.00955359\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$103^{(0.5+i21.022)} = -10.1400\dots - 0.425120\dots i \text{-----}\mathbb{E}\mathbb{E}$$

$$103^{(0.5+i25.0109)} = -9.63310\dots + 3.19428\dots i$$

$$103^{(0.5+i30.4249)} = -9.49651\dots + 3.57997\dots i$$

$$103^{(0.5+i32.93506)} = -2.78357\dots + 9.75970\dots i$$

$$103^{(0.5+i37.9351)} = 10.0872\dots - 1.11696\dots i$$

$$103^{(0.5+i40.9187)} = 4.13156\dots + 9.26986\dots i$$

$$\text{Zeta}[103^{(0.5+i84.7355)}]$$

$$0.00236420\dots +$$

$$0.00600092\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$103^{(0.5+i84.7355)} = -10.1452\dots - 0.273951\dots i \text{.....}\mathbb{E}\mathbb{E}$$

$$\text{zeta}[103^{(0.5+i103.726)}]$$

$$- 0.00395087... + \\ 0.0195608... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$103^{(0.5+i103.726)} = -10.1179... - 0.793068... i \dots \dots \dots \text{££}$$

$$\text{zeta}[107^{(0.5+i14.1347)}]$$

$$0.00324267... + \\ 0.0223079... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$107^{(0.5+i14.1347)} = -10.3145... - 0.781144... i$$

$$107^{(0.5+i21.022)} = -6.88242... - 7.72219... i$$

$$107^{(0.5+i25.0109)} = -8.34165... - 6.11693... i$$

$$107^{(0.5+i30.4249)} = -7.21657... - 7.41087... i$$

$$\text{Zeta}[107^{(0.5 + i32.9351)}]$$

$$0.00671072... - \\ 0.00975244... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$107^{(0.5 + i32.9351)} = -10.3366... + 0.392516... i \dots \dots \dots \text{££}$$

$$\text{zeta}[109^{(0.5+i14.1347)}]$$

$$- 0.650000... - \\ 0.314195... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$109^{(0.5+i14.1347)} = -9.85184... - 3.45560... i$$

$$\text{zeta}[166^{(0.5+14.134725i)}]$$

$$- 0.0750399... + \\ 0.0000904124... i$$

(using the principal branch of the logarithm for complex exponentiation)

$$166^{(0.5+14.134725i)} = -12.8841\dots + 0.00115236\dots i$$

.....

result

In this way it is assumed that prime numbers are related to trivial zero points and are not related to nontrivial zeros.

And,

$$\text{zeta}[3^{(0.5+i32.93506)}]$$

$$0.281268\dots + \\ 0.310896\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$3^{(0.5+i32.93506)} = 0.0944298\dots - 1.72947\dots i \dots \dots \dots \text{££££}$$

and,

$$\text{zeta}[47^{(0.5+i37.9351)}]$$

$$0.979943\dots + \\ 0.458201\dots i$$

(using the principal branch of the logarithm for complex exponentiation)

$$47^{(0.5+i37.9351)} = 0.194154\dots + 6.85290\dots i \text{-----} \text{££££}$$

etc.

In many cases, it does not take a value close to 0 as shown in Fig.

$$3^{(0.5+i32.93506)} = 0.0944298\dots - 1.72947\dots i$$

and

$$47^{(0.5+i37.9351)} = 0.194154\dots + 6.85290\dots i \quad \text{etc.}$$

It seems better to examine by the way

$$\text{Zeta}[107^{(0.5 + i32.9351)}] \text{etc.}$$

References

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



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



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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.
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.

