

## ***Original article***

### ***The Collapse of the Riemann Empire***

#### ***(Chapter II -3)***

#### ***Do they really converge to 0?***

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### ***Abstract***

$2^s/(2^s-1)*3^s/(3^s-1)*5^s/(5^s-1)*7^s/(7^s-1).....$

Whether the above equation converges to 0 was verified.

Convergence is extremely slow, and divergence tendency was rather rather abundant when the prime number was 1000 or more.

It was thought that the above equation could possibly be an expression that can be composed only of real numbers.

### ***Introduction***

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

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

List below as an example.

Example(a).

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], \{s=0.88455622 + 14.524 i\} = 0.265871940946923 + 0.260238347039527 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], \{s=0.88455622 + 14.524 i\} = 0.279942716350483 + 0.262382138789002 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], \{s=0.88455622 + i14.1347\} = 0.267372169557029 + 0.036534340733185 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], \{s=0.79 + i 14.1347\} = 0.217899533447437 + 0.033289253858811 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], \{s=0.88455622 + i 14.1347\} = 0.256814279634957 + 0.037180567586996 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,600\}], \{s=0.1154 + 14.524 i\} = -14467.6 - 8697.47 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,800\}], \{s=0.1154 + 14.524 i\} = -1.35053 \times 10^9 + 1.30251 \times 10^7 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,900\}], \{s=0.1154 + 14.524 i\} = -479.795 + 158.808 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,950\}], \{s=0.1154 + 14.524 i\} = 0.000249783 + 0.000087307 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,980\}], \{s=0.1154 + 14.524 i\} = 9.24459 \times 10^{-8} + 5.44649 \times 10^{-7} i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], \{s=0.1154 + 14.524 i\} = 4.11962 \times 10^{-9} + 6.61402 \times 10^{-8} i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1020\}], \{s=0.1154 + 14.524 i\} = -5.3125 \times 10^{-8} + 5.56113 \times 10^{-8} i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1050\}], \{s=0.1154 + 14.524 i\} = 0.0000103663 + 9.16455 \times 10^{-7} i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1100\}], \{s=0.1154 + 14.524 i\} = -87.1202 + 1696.9 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1200\}], \{s=0.1154 + 14.524 i\} = 3.14031 \times 10^{13} + 1.26047 \times 10^{13} i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], \{s=0.1154 + 14.524 i\} = 148174. + 891998. i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], \{s=0.1154 + i14.524\}$$

$$= 0.353616 + 0.274539 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], \{s=0.8355+i39\}= 1.36911957078225 - 0.07835844114770 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], \{s=0.8355+i39\}= 1.37738832193452 - 0.09265670774308 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], \{s=0.1645+i39\}=-0.00855717 - 0.0106338 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1100\}], \{s=0.1645+i39\}=19.38638414929417 - 0.29817811424546 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1200\}], \{s=0.1645+i39\}=0.3313856 - 1.104768 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], \{s=0.1645+i39\}=0.1184309737901299 - 0.0691326301941863 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,\infty\}], \{s=0.5+i14.1347\}=\text{cannot calculated}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], \{s=0.5+i14.1347\}= 0.0925155784852525 + 0.0351207219432035 i$$

$$\{\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,\infty\}], \{s=0.5+i14.1347\}=\text{cannot calculated}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,\infty\}], \{s=0.5+i14.1347\}=\text{cannot calculated}$$

$$\text{product}[\text{prime}(n)^{\{0.5+i14.1347\}}/(\text{prime}(n)^{\{0.5+i14.1347\}-1}),\{n,\infty\}=\text{cannot calculated}$$

$$\text{product}[\text{prime}(n)^{\{0.5+i14.1347\}}/(\text{prime}(n)^{\{-0.5+i14.1347\}}),\{n,\infty\}=\text{cannot calculated}$$

$$\text{zeta}(-0.5+i14.1347)= -1.18446... - 0.314336... i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,\infty\}], [s=0.5+i21.022] =\text{cannot calculated}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,\infty\}], [s=0.5+i25.0108] =\text{cannot calculated}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,\infty\}], [s=0.5+i2] =\text{cannot calculated}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,\infty\}], [s=5+1i] =\text{cannot calculated}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,\infty\}], [s=5+10i] =\text{cannot calculated}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=-2]= 3.90155339... \times 10^{-20}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,\infty\}], [s=-2] =\text{cannot calculated}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=-4]= 6.17761609... \times 10^{-40}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,\infty\}], [s=-4] =\text{cannot calculated}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=-6]= 1.387283740... \times 10^{-59}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,\infty\}], [s=-6] =\text{cannot calculated}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=-16]=1.06137198... \times 10^{-157}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,\infty\}], [s=-16] =\text{cannot calculated}$$

product[prime(n)^s/(prime(n)^s-1),{n,10}], [s=-36] =6.4296482725... × 10^-198  
 product[prime(n)^s/(prime(n)^s-1),{n,∞}], [s=-36] =cannot calculated

product[prime(n)^s/(prime(n)^s-1),{n,10}], [s=2] =1.63307049049573922.....  
 product[prime(n)^s/(prime(n)^s-1),{n,∞}], [s=2] =pi^2/6=1.6449340668482....  
 product[prime(n)^s/(prime(n)^s-1),{n,10}], [s=3] =1.20189927...  
 product[prime(n)^s/(prime(n)^s-1),{n,∞}], [s=3] =cannot calculated  
 product[prime(n)^s/(prime(n)^s-1),{n,10}], [s=4]= 1.082319965338454....  
 product[prime(n)^s/(prime(n)^s-1),{n,∞}], [s=4]=pi^4/90= 1.082323233711138...  
 product[prime(n)^s/(prime(n)^s-1),{n,10}], [s=5]= 1.03692767494200648584...  
 product[prime(n)^s/(prime(n)^s-1),{n,∞}], [s=5] =cannot calculated  
 product[prime(n)^s/(prime(n)^s-1),{n,10}], [s=6]= 1.01734305984....  
 product[prime(n)^s/(prime(n)^s-1),{n,∞}], [s=6]=pi^6/945= 1.017343061984...  
 product[prime(n)^s/(prime(n)^s-1),{n,10}], [s=8]= 1.0040773561961920485...  
 product[prime(n)^s/(prime(n)^s-1),{n,∞}], [s=8]=pi^8/9450= 1.004077356197944...  
 product[prime(n)^s/(prime(n)^s-1),{n,∞}], [s=0.5+2] = 1.34149  
 product[prime(n)^s/(prime(n)^s-1),{n,10}], [s=1]=6.3312287507233796...  
 product[prime(n)^s/(prime(n)^s-1),{n,∞}], [s=1] =cannot calculated  
 product[prime(n)^s/(prime(n)^s-1),{n,10}], [s=10]= 1.0009945751278.....  
 product[prime(n)^s/(prime(n)^s-1),{n,∞}], [s=10]=pi^10/93555= 1.0009945751....

## ***Discussion***

### ***(chapture 1)***

product[prime(n)^s/(prime(n)^s-1),{n,2}], {s=0.5+i14.1347}  
 = 0.377652 + 0.0334658 i  
 product[prime(n)^s/(prime(n)^s-1),{n,4}], {s=0.5+i14.1347}  
 = 0.213347 + 0.0240839 i  
 product[prime(n)^s/(prime(n)^s-1),{n,10}], [s=0.5+i14.1347]  
 = 0.127566 + 0.0283298 i  
 product[prime(n)^s/(prime(n)^s-1),{n,20}], [s=0.5+i14.1347]  
 = 0.0993201 + 0.0074479 i  
 product[prime(n)^s/(prime(n)^s-1),{n,30}], [s=0.5+i14.1347]  
 = 0.0763729 + 0.0115101 i  
 product[prime(n)^s/(prime(n)^s-1),{n,40}], [s=0.5+i14.1347]  
 = 0.0784141 - 0.00403302 i

$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,80\}], [s=0.5+i14.1347]$   
 $= 0.07038 - 0.0110989 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,160\}], [s=0.5+i14.1347]$   
 $= 0.0770881 - 0.0118563 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,300\}], [s=0.5+i14.1347]$   
 $= 0.0619651 + 0.0335354 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i14.1347]$   
 $= 0.0925155784852525 + 0.0351207219432035 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i14.1347]$   
 $= 0.0205870612401611 + 0.0175173833712662 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i14.1347]$   
 $= 0.0236476275066567 + 0.0329217483754596 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1400\}], [s=0.5+i14.1347]$   
 $= \text{cannot calculate}$

$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i21.022]$   
 $= 0.506267 - 0.0358867 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i21.022]$   
 $= 0.259625 - 0.0721143 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i21.022]$   
 $= 0.218131 - 0.0504925 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,20\}], [s=0.5+i21.022]$   
 $= 0.177199 - 0.0543632 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,120\}], [s=0.5+i21.022]$   
 $= 0.0759949 - 0.017568 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,320\}], [s=0.5+i21.022]$   
 $= 0.0598123 - 0.0229864 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,520\}], [s=0.5+i21.022]$   
 $= 0.0564780081596529 - 0.03885265369355867 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i21.022]$   
 $= 0.0810434072565851 + 0.0170292248690552 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i21.022]$   
 $= 0.0733483857858449 + 0.0219411283963124 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i21.022]$   
 $= 0.1101788403324873 + 0.0006482652372322 i$

$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i25.0108]$   
 $= 0.539436 + 0.195767 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i25.0108]$   
 $= 0.329809 + 0.192133 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i25.0108]$   
 $= 0.187922 + 0.035742 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i25.0108]$   
 $= 0.113093 + 0.0574211 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,200\}], [s=0.5+i25.0108]$   
 $= 0.113807 + 0.0487198 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,300\}], [s=0.5+i25.0108]$   
 $= 0.120129 + 0.0463811 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,400\}], [s=0.5+i25.0108]$   
 $= 0.0939364940085029 + 0.00948564888126129 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,500\}], [s=0.5+i25.0108]$   
 $= 0.0788647617769132 + 0.0064299591824090 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,600\}], [s=0.5+i25.0108]$   
 $= 0.1068217706639720 + 0.01051275715312875 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,700\}], [s=0.5+i25.0108]$   
 $= 0.0940882515680912 + 0.0654029681469763 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,800\}], [s=0.5+i25.0108]$   
 $= 0.0601324372859493 + 0.0171239622290952 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,900\}], [s=0.5+i25.0108]$   
 $= 0.1215484397090983 + 0.0419489116296102 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i25.0108]$   
 $= 0.0566503142350682 + 0.0201764891112796 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1200\}], [s=0.5+i25.0108]$   
 $= 0.0752348397695963 - 0.0063238237639172 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i25.0108]$   
 $= 0.0533173607716765 + 0.0447443983884782 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i25.0108]$   
 $= 0.0854559695534404 + 0.0687263613741341 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1400\}], [s=0.5+i25.0108]$   
 $=\text{cannot calculate}$

$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i30.4248]$   
 $= 0.34629 - 0.332933 i$

$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i30.4248]$   
 $= 0.329357 - 0.155893 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i30.4248]$   
 $= 0.151369 - 0.143805 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,20\}], [s=0.5+i30.4248]$   
 $= 0.136511 - 0.0967734 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,40\}], [s=0.5+i30.4248]$   
 $= 0.123619 - 0.0477287 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,80\}], [s=0.5+i30.4248]$   
 $= 0.104979 - 0.0647724 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,160\}], [s=0.5+i30.4248]$   
 $= 0.111697 - 0.0610105 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,320\}], [s=0.5+i30.4248]$   
 $= 0.102568 - 0.0342745 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i30.4248]$   
 $= 0.0548568792970041 - 0.0650018624254304 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1200\}], [s=0.5+i30.4248]$   
 $= 0.0539981231806227 - 0.0718148037078559 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i30.4248]$   
 $= 0.0654390365225221 - 0.0191848204203633 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i30.4248]$   
 $= 0.0999719129954261 - 0.0348805486773332 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1400\}], [s=0.5+i30.4248]$   
 $= \text{cannot calculate}$

$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i32.9350]$   
 $= 0.361634 + 0.436996 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i32.9350]$   
 $= 0.389821 + 0.151269 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i32.9350]$   
 $= 0.23851 + 0.0994475 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i32.9350]$   
 $= 0.148803 + 0.103849 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,20\}], [s=0.5+i32.9350]$   
 $= 0.165508 + 0.119011 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i32.9350]$   
 $= 0.0983761 + 0.0841706 i$

$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,200\}], [s=0.5+i32.9350]$   
 $= 0.111654 + 0.0659845 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,600\}], [s=0.5+i32.9350]$   
 $= 0.0587750921725233 + 0.0643533427180150 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i32.9350]$   
 $= 0.0665507025489664 + 0.0753272749125431 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1200\}], [s=0.5+i32.9350]$   
 $= 0.0776863736204299 + 0.0838956395913934 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i32.9350]$   
 $= 0.0681181682902927 + 0.0251664185362439 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i32.9350]$   
 $= 0.0488420355218018 + 0.0488876968109086 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1400\}], [s=0.5+i32.9350]$   
 $= \text{cannot calculate}$

$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i37.5861]$   
 $= 0.662167 - 0.465778 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i37.5861]$   
 $= 0.466129 - 0.0663061 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i37.5861]$   
 $= 0.387315 - 0.110532 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,40\}], [s=0.5+i37.5861]$   
 $= 0.232772 - 0.0785726 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,400\}], [s=0.5+i37.5861]$   
 $= 0.1353063569477743 - 0.0696071170557717 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i37.5861]$   
 $= 0.0921358554972438 - 0.0320010390700539 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i37.5861]$   
 $= 0.1086255358658522 - 0.0680554946041234 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i37.5861]$   
 $= 0.0895952637914474 - 0.0260528909344787 i$

$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i40.9187]$   
 $= 0.594355 - 0.388383 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i40.9187]$   
 $= 0.378882 - 0.133335 i$



$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i40.9187] \\ & = 0.253207 - 0.0533546 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i40.9187] \\ & = 0.126478 - 0.0139816 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i40.9187] \\ & = 0.0842070345605124 - 0.0449075058788713 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i40.9187] \\ & = 0.0958678634387273 - 0.0498338879249424 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i40.9187] \\ & = 0.0680632641808921 - 0.0259102753591269 i \end{aligned}$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i43.3271] \\ & = 0.387273 + 0.438802 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i43.3271] \\ & = 0.602852 + 0.201332 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i43.3271] \\ & = 0.356195 + 0.244084 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i43.3271] \\ & = 0.286547 + 0.137597 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i43.3271] \\ & = 0.25859 + 0.104947 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i43.3271] \\ & = 0.139457 + 0.101296 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i43.3271] \\ & = 0.0630445400724399 + 0.0795278251781460 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i43.3271] \\ & = 0.0604817697881812 + 0.0851958614850022 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i43.3271] \\ & = 0.109655464859025 + 0.091666294613241 i \end{aligned}$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i48.0051] \\ & = 0.352778 - 0.332182 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i48.0051] \\ & = 0.365422 - 0.346586 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i48.0051] \\ & = 0.226617 - 0.267092 i \end{aligned}$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i48.0051] \\ & = 0.186604 - 0.158739 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i48.0051] \\ & = 0.263028 - 0.129222 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i48.0051] \\ & = 0.108987 - 0.105554 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i48.0051] \\ & = 0.0420939558943280 - 0.0748907389119029 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i48.0051] \\ & = 0.0576050312909078 - 0.0563671235348613 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i48.0051] \\ & = 0.0779355627730564 - 0.088725240158172 i \end{aligned}$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i49.7738] \\ & = 0.414443 + 0.184089 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i49.7738] \\ & = 0.237385 + 0.197494 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i49.7738] \\ & = 0.341823 + 0.179804 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i49.7738] \\ & = 0.271919 + 0.0646094 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i49.7738] \\ & = 0.234739 + 0.154132 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i49.7738] \\ & = 0.118287 + 0.0639912 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i49.7738] \\ & = 0.0853972356838811 + 0.0624669726333817 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i49.7738] \\ & = 0.0927770370532244 + 0.0290553422776424 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i49.7738] \\ & = 0.0634320845423274 + 0.0442654597985283 i \end{aligned}$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i52.9703] \\ & = 0.957726 + 0.259615 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i52.9703] \\ & = 0.511406 + 0.122876 i \end{aligned}$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i52.9703] \\ & = 0.440348 + 0.0405441 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i52.9703] \\ & = 0.39701 + 0.137965 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i52.9703] \\ & = 0.203966 + 0.0598304 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i52.9703] \\ & = 0.1242819647452082 + 0.0274983062885220 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i52.9703] \\ & = 0.167167745839329 + 0.061200264286554 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i52.9703] \\ & = 0.135765840524732 + 0.012849466931192 i \end{aligned}$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i56.4462] \\ & = 1.18789 - 0.0636653 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i56.4462] \\ & = 0.593433 - 0.0990827 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i56.4462] \\ & = 0.618563 - 0.128434 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i56.4462] \\ & = 0.398277 - 0.131197 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i56.4462] \\ & = 0.343641 - 0.290229 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i56.4462] \\ & = 0.195861 - 0.0666635 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i56.4462] \\ & = 0.1072003055265527 - 0.0585868208054271 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i56.4462] \\ & = 0.144024845324995 - 0.0778129275329508 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i56.4462] \\ & = 0.103602668697241 - 0.0498531004280057 i \end{aligned}$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i59.347] \\ & = 0.398034 - 0.0626195 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i59.347] \\ & = 0.220079 - 0.233103 i \end{aligned}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i59.347]$$

$$= 0.168053 - 0.207246 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i59.347]$$

$$= 0.256395 - 0.114389 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i59.347]$$

$$= 0.251452 - 0.029267 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i59.347]$$

$$= 0.106294 - 0.071101 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i59.347]$$

$$= 0.0595365243904075 - 0.0250920356192947 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i59.347]$$

$$= 0.0555607681639736 - 0.0364034472964299 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i59.347]$$

$$= 0.0733222273325398 - 0.0196183053988868 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i60.8318]$$

$$= 0.341495 + 0.377987 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i60.8318]$$

$$= 0.0822419 + 0.413191 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i60.8318]$$

$$= 0.109173 + 0.467557 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i60.8318]$$

$$= 0.0837407 + 0.22717 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i60.8318]$$

$$= 0.0478625 + 0.123679 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i60.8318]$$

$$= 0.0344568785771721 + 0.0772946980089417 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i60.8318]$$

$$= 0.0359487592388053 + 0.0679248399553758 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i60.8318]$$

$$= 0.0525158803794204 + 0.0941780735565609 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i65.1125]$$

$$= 0.380781 - 0.589828 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i65.1125]$$

$$= 0.315121 - 0.556051 i$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i65.1125] \\ & = 0.47053 - 0.364258 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i65.1125] \\ & = 0.287343 - 0.297829 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i65.1125] \\ & = 0.309815 - 0.249738 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i65.1125] \\ & = 0.174057 - 0.135539 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i65.1125] \\ & = 0.1202226973433774 - 0.0789887705572783 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i65.1125] \\ & = 0.1324583600403318 - 0.0879530358433079 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i65.1125] \\ & = 0.0874813592936400 - 0.100041608986563 i \end{aligned}$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i67.0798] \\ & = 0.491082 + 0.115201 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i67.0798] \\ & = 0.540271 + 0.0787367 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i67.0798] \\ & = 0.35284 + 0.0475876 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i67.0798] \\ & = 0.281386 - 0.0511258 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i67.0798] \\ & = 0.284469 - 0.0391593 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i67.0798] \\ & = 0.175742 - 0.0119937 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i67.0798] \\ & = 0.1021337227241550 + 0.0041100932021340 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i67.0798] \\ & = 0.1162963261377133 + 0.0177035253652661 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i67.0798] \\ & = 0.114901999894346 - 0.018682251339301 i \end{aligned}$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i69.5464] \\ & = 0.791132 - 0.140947 i \end{aligned}$$

$$\begin{aligned}
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i69.5464] \\
& = 0.597654 + 0.220056 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i69.5464] \\
& = 0.386812 + 0.106589 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i69.5464] \\
& = 0.279649 + 0.0601736 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i69.5464] \\
& = 0.249018 + 0.0561291 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i69.5464] \\
& = 0.188525 + 0.0492936 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i69.5464] \\
& = 0.1571027284707269 + 0.0387311308806077 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i69.5464] \\
& = 0.1221183573498265 + 0.0275501570395058 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i69.5464] \\
& = 0.148527246151295 + 0.061260374773663 i
\end{aligned}$$

$$\begin{aligned}
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i72.0672] \\
& = 1.16013 + 1.23254 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i72.0672] \\
& = 0.876634 + 0.42437 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i72.0672] \\
& = 0.562763 + 0.204358 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i72.0672] \\
& = 0.406811 + 0.263395 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i72.0672] \\
& = 0.390397 + 0.361653 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i72.0672] \\
& = 0.263308 + 0.0806071 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i72.0672] \\
& = 0.1498571865964130 + 0.0794656596227694 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i72.0672] \\
& = 0.196318371686328 + 0.047454767781787 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i72.0672] \\
& = 0.149753607872424 + 0.073282414948645 i
\end{aligned}$$

$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i75.7047]$   
 $= 0.354014 - 0.468309 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i75.7047]$   
 $= 0.106994 - 0.294192 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i75.7047]$   
 $= 0.35902 - 0.354272 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i75.7047]$   
 $= 0.249381 - 0.406639 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i75.7047]$   
 $= 0.305591 - 0.279846 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i75.7047]$   
 $= 0.0832787 - 0.127981 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i75.7047]$   
 $= 0.0777966777004996 - 0.0855869073114268 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i75.7047]$   
 $= 0.0502964543382511 - 0.0708363512571197 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i75.7047]$   
 $= 0.0631861330215501 - 0.0948914980242509 i$

$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i77.1448]$   
 $= 0.371784 + 0.000475416 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i77.1448]$   
 $= 0.339775 + 0.320968 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i77.1448]$   
 $= 0.22452 + 0.174944 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i77.1448]$   
 $= 0.252993 + 0.210681 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i77.1448]$   
 $= 0.208204 + 0.128378 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i77.1448]$   
 $= 0.107291 + 0.0409591 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i77.1448]$   
 $= 0.0895582534182579 + 0.0333493306127753 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i77.1448]$   
 $= 0.0658699303945487 + 0.0282714089031475 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i77.1448]$   
 $= 0.0825108602038927 + 0.0159785422065299 i$

$$\begin{aligned}
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i79.3374] \\
& = 0.380323 + 1.06137 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i79.3374] \\
& = 0.344207 + 0.564736 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i79.3374] \\
& = 0.407335 + 0.279223 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i79.3374] \\
& = 0.438522 + 0.312443 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i79.3374] \\
& = 0.285986 + 0.257881 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i79.3374] \\
& = 0.17815 + 0.121896 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i79.3374] \\
& = 0.1355659011279398 + 0.0973849106969286 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i79.3374] \\
& = 0.1021393287384217 + 0.118037865893594 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i79.3374] \\
& = 0.097918921572898 + 0.081984599865823 i
\end{aligned}$$

$$\begin{aligned}
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i82.9104] \\
& = 0.559189 - 0.558322 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i82.9104] \\
& = 0.363752 - 0.492155 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i82.9104] \\
& = 0.514062 - 0.264489 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i82.9104] \\
& = 0.506877 - 0.214425 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i82.9104] \\
& = 0.336731 - 0.226722 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i82.9104] \\
& = 0.226146 - 0.158813 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i82.9104] \\
& = 0.1054038747490071 - 0.1305233438653630 i \\
& \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i82.9104] \\
& = 0.129722727270062 - 0.1299711142820603 i
\end{aligned}$$



$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i82.9104] \\ = 0.139660279582208 - 0.089340306127117 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i84.7355] \\ = 0.689194 + 0.14951 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i84.7355] \\ = 0.544034 + 0.116818 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i84.7355] \\ = 0.374964 + 0.0432969 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i84.7355] \\ = 0.359862 + 0.027605 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i84.7355] \\ = 0.285673 - 0.0578493 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i84.7355] \\ = 0.22516 + 0.0372672 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i84.7355] \\ = 0.1547999668802079 + 0.0398153399168179 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i84.7355] \\ = 0.1431934420291319 + 0.0337569114547540 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i84.7355] \\ = 0.1239050011053785 + 0.0090958824487874 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i87.4253] \\ = 0.512343 - 0.0467799 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i87.4253] \\ = 0.46394 - 0.283016 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i87.4253] \\ = 0.343922 - 0.190301 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i87.4253] \\ = 0.35569 - 0.214614 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i87.4253] \\ = 0.387518 - 0.0978681 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i87.4253] \\ = 0.130133 - 0.0407992 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i87.4253] \\ = 0.1076552586913424 - 0.0122182074946771 i$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i87.4253] \\ & = 0.1105763127269194 - 0.0192672907153070 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i87.4253] \\ & = 0.0919861734426403 - 0.0326149627010606 i \end{aligned}$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i88.8091] \\ & = 0.437907 + 0.425294 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i88.8091] \\ & = 0.147119 + 0.375158 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i88.8091] \\ & = 0.191402 + 0.451246 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i88.8091] \\ & = 0.189468 + 0.504962 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i88.8091] \\ & = 0.18038 + 0.38151 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i88.8091] \\ & = 0.0996069 + 0.176682 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i88.8091] \\ & = 0.0644654441784986 + 0.1097283579097019 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i88.8091] \\ & = 0.0768428577895150 + 0.1136535498069152 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i88.8091] \\ & = 0.0748945129974856 + 0.0870633087349146 i \end{aligned}$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i92.4919] \\ & = 0.272198 - 1.04069 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i92.4919] \\ & = 0.512182 - 0.45992 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i92.4919] \\ & = 0.449275 - 0.390945 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i92.4919] \\ & = 0.374845 - 0.295732 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i92.4919] \\ & = 0.316701 - 0.323122 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i92.4919] \\ & = 0.185264 - 0.181854 i \end{aligned}$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i92.4919] \\ & = 0.153749644766168 - 0.1162349873278976 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i92.4919] \\ & = 0.1224380884546225 - 0.111660849113900 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i92.4919] \\ & = 0.155712626906861 - 0.103916996766394 i \end{aligned}$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i94.6513] \\ & = 0.381547 - 0.0142201 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i94.6513] \\ & = 0.21377 - 0.202223 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i94.6513] \\ & = 0.202132 - 0.225844 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i94.6513] \\ & = 0.162262 - 0.167492 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i94.6513] \\ & = 0.150025 - 0.165188 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i94.6513] \\ & = 0.0929646 - 0.0577548 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i94.6513] \\ & = 0.0858778885118157 - 0.0575361270594186 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i94.6513] \\ & = 0.0729306901538976 - 0.0434007187940284 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i94.6513] \\ & = 0.0834801682377031 - 0.0567408885966960 i \end{aligned}$$

$$\begin{aligned} & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,2\}], [s=0.5+i95.8706] \\ & = 0.399312 + 0.365186 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,4\}], [s=0.5+i95.8706] \\ & = 0.129552 + 0.291117 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,6\}], [s=0.5+i95.8706] \\ & = 0.154201 + 0.254503 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,8\}], [s=0.5+i95.8706] \\ & = 0.228366 + 0.293689 i \\ & \text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,10\}], [s=0.5+i95.8706] \\ & = 0.197365 + 0.30213 i \end{aligned}$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,100\}], [s=0.5+i95.8706]$$

$$= 0.0736847 + 0.101874 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1000\}], [s=0.5+i95.8706]$$

$$= 0.0638337117558314 + 0.0962527460612394 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1300\}], [s=0.5+i95.8706]$$

$$= 0.0751287495945912 + 0.0755938932874673 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.5+i95.8706]$$

$$= 0.071517555262855 + 0.095310745325878 i$$

## ***(chapture 2)***

$$\text{Zeta}(4+i14.1347)= 0.931823... + 0.0187525... i$$

$$\text{Zeta}(4+i15.1347)= 0.961025... + 0.0619108... i$$

$$\text{Zeta}(4+i16.1347)= 1.01412... + 0.0731518... i$$

$$\text{Zeta}(0.44+i21.022)= -0.0689922... + 0.0156464... i$$

$$\text{Zeta}(0.48+i21.022)= -0.0224609... + 0.00501374... i$$

$$\text{Zeta}(0.496+i21.022)= -0.00445763... + 0.000954084... i$$

$$\text{Zeta}(0.496+i21.021)= -0.00470732... - 0.000160704... i$$

$$\text{Zeta}(0.496+i21.0211)= -0.00468241... - 0.0000492062... i$$

$$\text{Zeta}(0.4958+i21.02109999)= -0.00490543... + 6.23635... \times 10^{-7} i$$

$$\text{Zeta}(0.4958+i21.0210999)= -0.00490545... + 5.23265... \times 10^{-7} i$$

$$\text{Zeta}(0.49659+i21.021099)= -0.00402507... - 0.000197254... i$$

$$\text{Zeta}(0.4968+i21.021099999)= -0.00379087... - 0.000248404... i$$

$$\text{Zeta}(0.4968+i21.021199999)= -0.00376598... - 0.000137016... i$$

$$\text{Zeta}(0.49582+i21.021099999)= -0.00488313... - 4.35118... \times 10^{-6} i$$

$$\text{Zeta}(0.49582+i21.02111)= -0.00488063... + 6.80184... \times 10^{-6} i$$

$$\text{Zeta}(0.49580+i21.021099)= -0.00490568... - 4.80432... \times 10^{-7} i$$

$$\text{Zeta}(0.4957969+i21.021099)= -0.00490914... + 2.92231... \times 10^{-7} i$$

and

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.315+i14.1347]$$

$$= -0.000055627075626838 - 0.001189691669079660 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.32+i14.1347]$$

$$= -0.000352398692179693 - 0.001353929337498743 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.35+i14.1347]$$

$$= -0.00319322962501748 - 0.000838846638898544 i$$

$$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}], [s=0.355+i14.1347]$$

$$= -0.00372691523361449 - 0.000403663104494976 i$$

$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.357+i14.1347]$   
 $= -0.00393452316986239 - 0.000197832641360919 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.358+i14.1347]$   
 $= -0.00403654645109396 - 0.000088094205425077 i \dots\dots\dots$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.36+i14.1347]$   
 $= -0.00423638391052457 + 0.000145002197695220 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.37+i14.1347]$   
 $= -0.00511874032809989 + 0.00157789436995893 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.38+i14.1347]$   
 $= -0.00572095929534334 + 0.00342877160630133 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.4+i14.1347]$   
 $= -0.00571017627200924 + 0.00813280131677177 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.43+i14.1347]$   
 $= -0.00189882925948139 + 0.01647513669790272 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.435+i14.1347]$   
 $= -0.00079871019597717 + 0.01788714975529962 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.437+i14.1347]$   
 $= -0.00032249155524714 + 0.01844770439863719 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.438+i14.1347]$   
 $= -0.00007672871623949 + 0.01872683569172415 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.439+i14.1347]$   
 $= 0.00017410100059353 + 0.01900512819967934 i \dots\dots\dots$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.44+i14.1347]$   
 $= 0.00042996984184770 + 0.01928252737327513 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.45+i14.1347]$   
 $= 0.00325912371709882 + 0.0219962607474467 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.47+i14.1347]$   
 $= 0.0102837411439597 + 0.0269681183193436 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.49+i14.1347]$   
 $= 0.0188693652836117 + 0.0311541799751594 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.499+i14.1347]$   
 $= 0.0231569123585174 + 0.0327548683381716 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.5+i14.1347]$   
 $= 0.0236476275066567 + 0.0329217483754596$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.50+i14.1347]$   
 $= 0.0236476275066567 + 0.0329217483754596 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.501+i14.1347]$   
 $= 0.0241410720300064 + 0.0330864423033279 i$

$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.51+i14.1347]$   
 $= 0.0286990502417116 + 0.0344711420189278 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.53+i14.1347]$   
 $= 0.0394856408945599 + 0.0369437646430990 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.6+i14.1347]$   
 $= 0.081700089184225 + 0.040482243874307 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=1 +i14.1347]$   
 $= 0.323503927380828 + 0.041763965213301 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1400\}], [s=0.5+i14.1347]$   
 $=\text{cannot calculate}$

With a product as small as 1350, the real part is around 0.439, and the imaginary part is close to 0 around 0.358.

$\text{zeta}(0.5+i14.1347)= 3.13536... \times 10^{-6} - 0.0000196934... i$   
 $\text{zeta}(0.501+i14.1347)= 0.000786119... + 0.000104907... i$   
 $\text{zeta}(0.51+i14.1347)= 0.00780540... + 0.00121602... i$   
 $\text{zeta}(0.52+i14.1347)= 0.0155467... + 0.00242908... i$   
 $\text{zeta}(0.53+i14.1347)= 0.0232275... + 0.00361979... i$

$\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.35+i21.022]$   
 $= 0.0506723796515919 + 0.0407815913688089 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.4+i21.022]$   
 $= 0.0692519119834832 + 0.0248909945448593 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.45+i21.022]$   
 $= 0.0882797464709572 + 0.0121130004325595 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.49+i21.022]$   
 $= 0.1055295620734340 + 0.0028810451987153 i$   
 $\text{product}[\text{prime}(n)^s/(\text{prime}(n)^{s-1}),\{n,1350\}],[s=0.5+i21.022]$   
 $= 0.1101788403324873 + 0.0006482652372322 i$

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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 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 into a cipher for me.**



## ***postscript***

The cold when I found the first one is still continuing now and this may be my last post. I may have discovered another by surging my energy and it may not be counter example.

It may be written as a will.

I am writing this at the limit of power.

I write this with spitting blood.

I will post it in a hurry, as long as I have not done it before I die.

He accomplished a mysterious death.



