

Review article

$$40.5 + (n^2 + 1)/4$$

Prime number production formula

Toshiro Takami

Mmm82889@yahoo.co.jp

Abstract

$40.5 + (n^2 + 1)/4$ (n is positive integers)

This prime number production formula product integers and non-integers alternately, but picking up an integer portion yields a prime number up to the 40th number, and even after an integer that is not a prime number, many are prime numbers. Even in the region where prime numbers are prime, many are made prime.

Discussion

$40.5 + (n^2 + 1)/4$ (n is positive integers) product as fallows. This formula product integers and non-integers alternately, but picking up an integer portion.

(Prime numbers are not marked)

41

43

47

53

61

71

83

97

113
131
151
173
197
223
251
281
313
347
383
421
461
503
547
593
641
691
743
797
853
911
971
1033
1097
1163
1231
1301
1373
1447
1523
1601
1681....not prime
1763....not prime
1847
1993
2021
2111

2203
2297
2393
2491...not prime
2591
2693
2797
2903
3011
3121
3233....not prime
3347
3463
3581
3701
3823
3947
4073
4201
4331....nor prime
4463
4597
4733
4871
5011
5153
5297
5443
5591
5741
5893....not prime
6047
6203
6361
6521
.....
.....

conclusion

I do not know why, many will be prime.

Reference

- 1) https://en.wikipedia.org/wiki/Prime_number
- 2) https://en.m.wikipedia.org/wiki/Formula_for_primes



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

home

〒854-0067

Toshiro Takami

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

Currently 56 years old

Born on November 26, 1961

mmm82889@yahoo.co.jp

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

I am very poor of english. Document are all google-translation.

When it is translated into English, Japanese becomes cryptographically.

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

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

【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.

Office

〒854-0007

Toshiro Takami

Akiyama hospital

737-1 Megai-cho, Isahaya City, Nagasaki Prefecture, Japan
tel: 0957-22-2370 fax: 0957-23-8031

home

〒854-0067

Toshiro Takami

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

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