

Original article

Consideration of prime number production formula of $\sqrt{24a+1}=t$

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Abstract

Calculationally, $\sqrt{24a+1}=t$ is excellent as a prime number production formula.

But, $\sqrt{24a+1}=t$ is a sequence that increases only by 2, 4, 2, 4 alternately.

The prime number may only be 2, 4, 2, 4 and the increasing sequence of complexity is increasing.

Occasionally, it may be prime that 2 and 4 combine to become 6, 8, 10, and so on.

$\sqrt{12a+1}=t$, $\sqrt{8a+1}=t$, $\sqrt{6a+1}=t$ (a is positive integer) as an examples.

$\sqrt{24a+1}=t$ are exactly the same as these.

$\sqrt{20a+1}=t$, $\sqrt{18a+1}=t$, $\sqrt{16a+1}=t$, $\sqrt{10a+1}=t$, etc, tried, but these did not become a prime number production formula at all.

discussion

(Those that are prime are not marked.)

(Only the integer was extracted.)

$\sqrt{24a+1}=t$ is, of course, the same as the following.

$\sqrt{20a+1}=t$, $\sqrt{18a+1}=t$, $\sqrt{16a+1}=t$, $\sqrt{10a+1}=t$, etc, tried, but these did not become a prime number production formula at all.

$\sqrt{12a+1}=t$

a=3, t=5

a=5, t=7

a=10, t=11

a=14, t=13

a=25, t=17

a=31, t=19

a=44, t=23

a=52, t=25 not prime

a=70, t=29

a=80, t=31

a=102, t=35 not prime

a=114, t=37

a=140, t=41

a=155, t=43

a=185, t=47

a=201, t=49 not prime

a=234, t=53

a=253, t=55 not prime

a=291, t=59

a=311, t=61

a=352, t=65 not prime

a=374, t=67

a=429, t=71
a=444, t=73
a=498, t=77 not prime
a=521, t=79
a=574, t=83
a=602, t=85 not prime
a=660, t=89
a=690, t=91
a=752, t=95 not prime
a=784, t=97
a=850, t=101
a=884, t=103
a=954, t=107
a=991, t=109
a=1054, t=113
a=1102, t=115 not prime
a=1180, t=119 not prime
a=1220, t=121 not prime
a=1302, t=125 not prime
a=1344, t=127
a=1430, t=131
a=1474, t=133
a=1564, t=137
a=1610, t=139
a=1704, t=143
a=1752, t=145 not prime
a=1850, t=149
a=1901, t=151
a=2002, t=155 not prime
a=2054, t=157
a=2160, t=161 not prime
a=2214, t=163
a=2324, t=167
a=2380, t=169
a=2494, t=173
a=2552, t=175 not prime
a=2670, t=179
a=2730, t=181

a=2852, t=185 not prime

a=2914, t=187

a=3040, t=191

a=3140, t=193

a=3234, t=197

a=3300, t=199

a=3434, t=203 not prime

a=3502, t=205 not prime

a=3640, t=209 not prime

a=3710, t=211

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$\sqrt{8a+1}=t$

a=1, t=3

a=3, t=5

a=6, t=7

a=15, t=11

a=21, t=13

a=29, t=15 not prime

a=36, t=17

a=45, t=19

a=55, t=21 not prime

a=66, t=23

a=78, t=25 not prime

a=91, t=27 not prime

a=105, t=29

a=120, t=31

a=136, t=33 not prime

a=153, t=35 not prime

a=171, t=37

a=190, t=39 not prime

a=210, t=41

a=231, t=43

a=253, t=45

a=276, t=47

a=300, t=49 not prime

a=325, t=51 not prime
a=351, t=53
a=378, t=55 not prime
a=406, t=57
a=436, t=59
a=465, t=61
a=496, t=63 not prime
a=528, t=65 not prime
a=561, t=67
a=594, t=69 not prime
a=630, t=71
a=666, t=73
a=703, t=75
a=741, t=77 not prime
a=780, t=79
a=820, t=81 not prime
a=861, t=83
a=903, t=85 not prime
a=946, t=87
a=990, t=89
a=1035, t=91 not prime
a=1081, t=93 not prime
a=1128, t=95 not prime
a=1177, t=97
a=1225, t=99 not prime
a=1275, t=101
a=1326, t=103
a=1378, t=105 not prime
a=1431, t=107
a=1485, t=109
a=1540, t=111 not prime
a=1596, t=113
a=1653, t=115 not prime
a=1711, t=117 not prime
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$\sqrt{6a+1}$

a=4, t=5

a=8, t=7

a=20, t=11

a=28, t=13

a=48, t=17

a=60, t=19

a=88, t=23

a=104, t=25 not prime

a=140, t=29

a=160, t=31

a=204, t=35 not prime

a=228, t=37

a=280, t=41

a=308, t=43

a=368, t=47

a=400, t=49 not prime

a=468, t=53

a=504, t=55 not prime

a=580, t=59

a=620, t=61

a=704, t=65 not prime

a=748, t=67

a=840, t=71

a=888, t=73

a=988, t=77 not prime

a=1040, t=79

a=1148, t=83

a=1204, t=85 not prime

a=1320, t=89

a=1380, t=91

a=1504, t=95 not prime

a=1568, t=97

a=1701, t=101

a=1768, t=103

a=1908, t=107

a=1980, t=109

a=2128, t=113

a=2204, t=115 not prime
a=2360, t=119
a=2240, t=121
a=2604, t=125 not prime
a=2688, t=127
a=2860, t=131
a=2948, t=133
a=3128, t=137
a=3220, t=139
a=3408, t=143
a=3504, t=145 not prime
a=3700, t=149
a=3800, t=151
a=4004, t=155 not prime
a=4108, t=157
a=4321, t=161
a=4428, t=163
a=4648, t=167
a=4760, t=169
a=4988, t=173
a=5104, t=175 not prime
a=5340, t=179
a=5460, t=181
a=5704, t=185 not prime
a=5828, t=187
a=6080, t=191
a=6208, t=193
a=6468, t=197
a=6600, t=199
a=6869, t=203 not prime
a=7004, t=205 not prime
a=7280, t=209 not prime
a=7420, t=211
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postscript

I use wolframAlpha for calculation.

Reference

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

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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.

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

When it is translated into English it turns into a cipher for me.

Currently 56 years old

Born on November 26, 1961

