

Discovery of the prime number equation

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[Abstract]

I found a prime number equation. All prime numbers except 2 and 3 are expressed by the following formula.

$$\sqrt{24a + 1} = t \quad (1)$$

(a = positive integer, t = prime number etc.)

For other positive integers(a), t is an irrational number.

As an exception, This generates all prime numbers except 2 and 3, but also generates a composite number of prime numbers and irrational number.

The composite number of the prime has regularity.

[Discussion]

$$\sqrt{24a + 1} = t$$

(a =positive integer, t =prime number etc.)

This generates all prime numbers except 2 and 3, but also generates a composite number of prime numbers and irrational numbers.

The composite number of the prime has regularity,

$$(prime - number) \times (prime - number)$$

That is

(5) x (5 or more prime number)

For example, 5x5, 5x7, 5x11, 5x13, 5x17, 5x19.....

(7) x (7 or more prime number)

For example, 7x7, 7x11, 7x13, 7x17, 7x19, 7x23.....

(11) x (11 or more prime number)

For example, 11x11, 11x13, 11x17, 11x19, 11x23.....

(13) x (13 or more prime number)

For example, 13x13, 13x17, 13x19, 13x23, 13x29.....

(17) x (17 or more prime number)

For example, 17x17, 17x19, 17x23, 17x29, 17x31.....

(19) x (19 or more prime number)

For example, 19x19, 19x23, 19x29, 19x31, 19x37.....

(23) x (23 or more prime number)

For example, 23x23, 23x29, 23x31, 23x37, 23x41.....

(29) x (29 or more prime number)

For example, 29x29, 29x31, 29x37, 29x41, 29x43.....

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When prime is multiplied by three, when it is four-quadrant, we always have 5 as a prime, so you can understand at a glance.

$$\sqrt{24a + 1} = t$$

(a =positive integer, t =prime number)

.....

Other than a (positive integer), t is an irrational number or the above exceptions.

According to excel of reprint, it is rare that t becomes an integer, and most of it is irrational number, irrational number or rational number is hard to distinguish.

Even if it is a rare integer, it is a prime number multiplied by a prime number.

I tried discriminating whether it was a prime number or a multiplication of prime numbers by repetition excel.

$$\sqrt{24a + 1} = t$$

Let prime number be p. All prime numbers were included.

Three multiplication prime numbers that are generated, prime numbers multiplied by four, prime factors multiplied by five (prime factors

multiplied by six, there will also be seven multiples) always have a prime of 5, so you can see at a glance .

The following occurs according to the above equation.

$$5=p$$

$$7=p$$

$$11=p$$

$$13=p$$

$$17=p$$

$$19=p$$

$$23=p$$

$$25=5*5$$

$$29=p$$

$$31=p$$

$$35=5*7$$

$$37=p$$

$$41=p$$

$$43=p$$

$$47=p$$

$$49=7*7$$

$$53=p$$

$$55=5*11$$

$$59=p$$

$$61=p$$

$$65=5*13$$

$$67=p$$

$$71=p$$

$$73=p$$

$$77=7*11$$

$$79=p$$

$$83=p$$

$$85=5*17$$

$$89=p$$

$$91=7*13$$

$$95=5*19$$

$$97=p$$

$$101=p$$

$$103=p$$

107=p
109=p
113=p
115=5*23
119=7*17
121=11*11
125=5*5*5
127=p
131=p
133=7*19
137=p
139=p
143=11*13
145=5*29
149=p
151=p
155=5*31
157=p
161=7*23
163=p
167=p
169=13*13
173=p
175=5*5*7
179=p
181=p
185=5*37
187=11*17
191=p
193=p
197=p
199=p
203=7*29
205=5*41
209=11*19
211=p
215=5*43
217=7*31

221=13*17
223=p
227=p
229=p
233=p
235=5*47
239=p
241=p
245=5*49
247=13*19
251=p
253=11*23
257=p
259=7*37
263=p
265=5*53
269=p
271=p
275=5*5*11
277=p
281=p
283=p
287=7*47
289=17*17
293=p
295=5*59
299=13*23
301=7*43
305=5*61
307=p
311=p
313=p
317=p
319=11*29
325=5*5*13
323=17*19
329=7*47
330=2*3*5*11

331=p
335=5*67
337=p
341=11*31
343=7*7*7
347=p
349=p
353=p
355=5*71
359=p
361=19*19
365=5*73
367=p
371=7*53
373=p
377=13*29
379=p
383=p
385=5*7*11
389=p
391=17*23
395=5*79
397=p
401=p
403=13*31
407=11*37
409=p
413=7*63
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.....

[Reference]

1) https://en.wikipedia.org/wiki/Prime_number



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

home

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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

8/22/18 5:59 AM

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