

original article

All prime number expressed

18a + p (a is integer include 0, p is prime number less than 18 include 1) and 24a + p, and 30a + p

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Abstract

All prime number expressed

18a + p (a is integer include 0, p is prime number less than 18 include 1, and a continues to infinity).

Prime numbers cycle at 18.

24a + p (a is integer include 0, p is prime number less than 24 include 1, and a continues to infinity).

Prime numbers cycle at 24.

and 30a + p (a is integer include 0, p is prime number less than 30 include 1, and a continues to infinity).

Prime numbers cycle at 30.

There is no exception.

I noticed while building prime number production formula. ***Prime numbers arise from several lines. Therefore, I believe it is extremely difficult to build a prime number production formula.***

Discussin

(for 18a + p)

$$2=18\times 0+2$$

$$3=18\times 0+3$$

$$5=18\times 0+5$$

$$7=18\times 0+7$$

$$11=18\times 0+11$$

$$13=18\times 0+13$$

$$17=18\times 0+17$$

$$19=18\times 1+1$$

$$23=18\times 1+5$$

$$29=18\times 1+11$$

$$31=18\times 1+13$$

$$37=18\times 2+1$$

$$41=18\times 2+5$$

$$43=18\times 2+7$$

$$47=18\times 2+11$$

$$53=18\times 2+17$$

$$59=18\times 3+5$$

$$61=18\times 3+7$$

$$67=18\times 3+13$$

$$71=18\times 3+17$$

$$79=18\times 4+7$$

$$83=18\times 4+11$$

$$89=18\times 4+15$$

$$97=18\times 5+7$$

$$101=18\times 5+11$$

$$103=18\times 5+13$$

$$107=18\times 5+17$$

$$109=18\times 6+1$$

$$113=18\times 6+5$$

$$127=18\times 7+1$$

$$131=18\times 7+5$$

$$137=18\times 7+11$$

$$139=18\times 7+13$$

$$149=18\times 8+5$$

$$151=18\times 8+7$$

$$157=18\times 8+13$$

$$163=18\times 9+1$$

$$167=18\times 9+5$$

$$173=18\times 9+11$$

$$179=18\times 9+17$$

$$181=18\times 10+1$$

$$191=18\times 10+11$$

$$193=18\times 10+13$$

$$197=18\times 10+17$$

$$199=18\times 11+1$$

$$211=18\times 11+13$$

$$223=18\times 12+7$$

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$$863=18\times 47+17$$

$$877=18\times 48+13$$

$$881=18\times 48+17$$

$$883=18\times 49+1$$

$$887=18\times 49+5$$

$$907=18\times 50+7$$

$$911=18\times 50+11$$

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$$929=18\times 51+11$$

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$$991=18\times 55+1$$

$$997=18\times 55+7$$

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$$1163=18\times 64+11$$

$$1171=18\times 65+1$$

$$1181=18\times 65+11$$

$$1187=18\times 65+17$$

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(for $24a + p$)

$$2=24\times 0+2$$

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$$887=24\times 36+23$$

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$$937=24\times 39+1$$

$$941=24\times 39+5$$

$$947=24\times 39+11$$

$$953=24\times 39+17$$

$$967=24\times 40+7$$

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$$977=24\times 40+17$$

$$983=24\times 40+23$$

$$991=24\times 41+7$$

$$997=24\times 41+13$$

$$1009=24\times 42+1$$

$1013=24\times 42+5$
 $1019=24\times 42+11$
 $1021=24\times 42+13$
 $1031=24\times 42+23$

$1033=24\times 43+1$
 $1039=24\times 43+7$
 $1049=24\times 43+17$
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$1061=24\times 44+5$
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$1087=24\times 45+7$
 $1091=24\times 45+11$
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 $1123=24\times 46+19$

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$1201=24\times 50+1$
 $1213=24\times 50+13$
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(for $30a + p$)

$$2=30\times 0+2$$

$$3=30\times 0+3$$

$$5=30\times 0+5$$

$$7=30\times 0+7$$

$$11=30\times 0+11$$

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$$19=30\times 0+19$$

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$$31=30\times 1+1$$

$$37=30\times 1+7$$

$$41=30\times 1+11$$

$$43=30\times 1+13$$

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$$1181=30\times 39+11$$

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(continues to infinity)

conclusion

In this way, all prime numbers are represented by $(18a + p)$, $(24a + p)$ and $(30a + p)$.

(a is positive integer include 0, p is prime number less than 18,24 or 30 include 1.

And a continues to infinity).

Reference

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



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

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

Born on November 26, 1961

Currently 56 years old

(Home)

〒854-0067

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

mmm82889@yahoo.co.jp

(I am very poor of English. Almost all document are google-translation.)

DocInformation:Created

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