Specific Function of Prime Numbers

Abde-laziz Ben Ideiss

Abstract

This paper discusses a function of infinite formulas in determining prime numbers directly and in order.

This function consists of three steps:

1-Step (the first) is a formula that produces prime numbers and multiples of prime numbers (disbursed) from the list of numbers, and it depends on some of the constants that will never change, such as: 10 and 1 as for the variable constants in the formula are: 12 and 18 its variable depends on an increase 30 Every step.

10+1+12-1-10

23=10+13=1+12-1=11-10=1

12+30=42

53=10+43=1+42-1=41-10=31

42+30=72

83=10+73=1+72-1=71-10=61

72+30=102

113=10+103=1+102-1=101-10=91

102+30=132

.....

.....

.....

10+1+18-1-10

29=10+19=1+18-1=17-10=7

18+30=48

59=10+49=1+48-1=47-10=37

48+30=78

89=10+79=1+78-1=77-10=67

78+30=108

119=10+109=1+108-1=107-10=97

108+30=138

.....

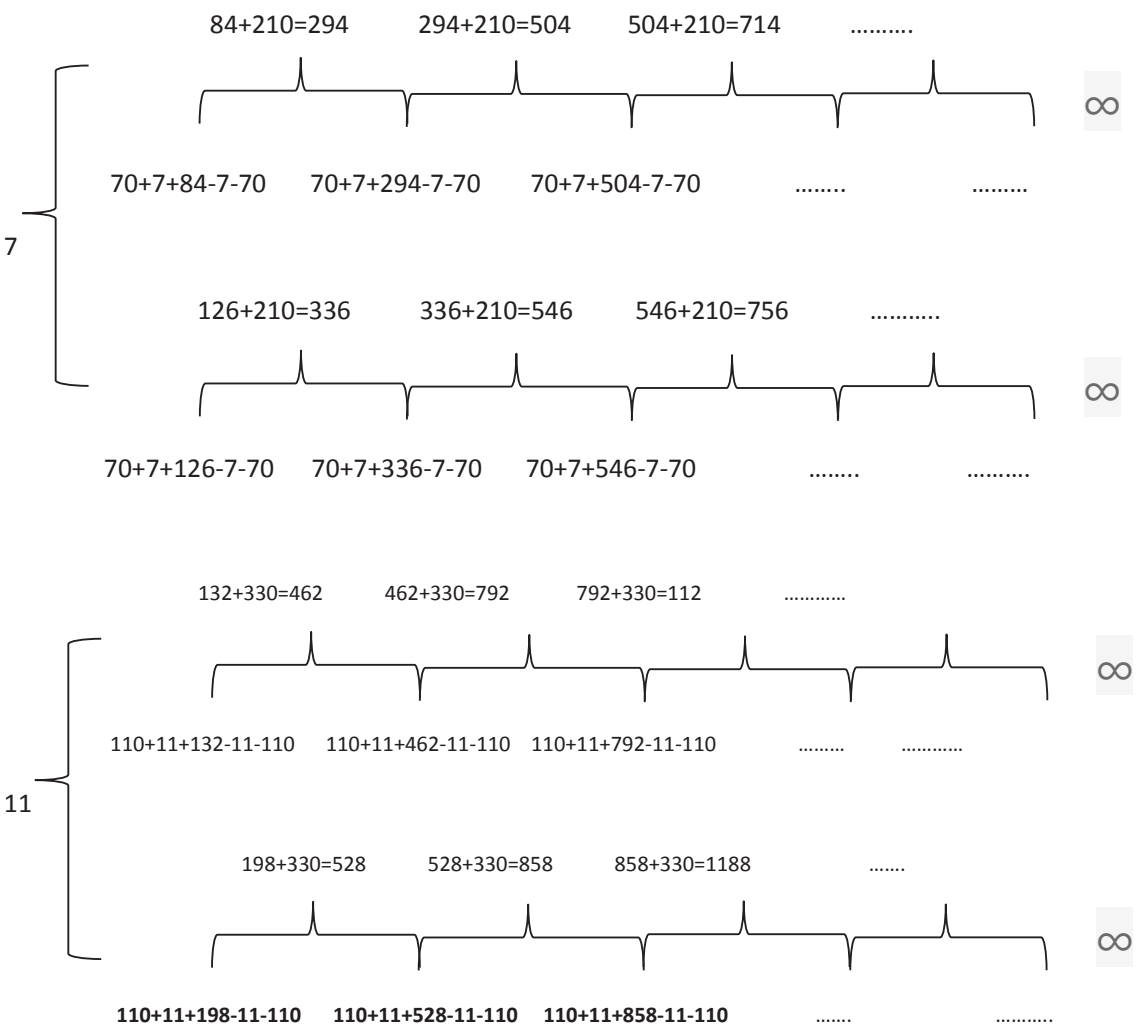
.....

.....

2-The (second) step is to construct the variable and unchanging constants for each number you extract (the first step) as indicated.

1	1×30=30	**10+1+12-1-10**	**10+1+18-1-10**
7	7×30=210 , 7×12=84 , 7×18=126 , 7×1=7 , 7×10=70		
11	11×30=330 , 11×12=132 , 11×18=198 , 11×1=11 , 11×10=110		
13	13×30=390, 13×12=156 , 13×18=234 , 13×1=13 , 13×10=130		
17	17×30=510 , 17×12=204 , 17×18=306 , 17×1=17 , 17×10=170		
19	19×30=570 , 19×12=228 , 19×18=342 , 19×1=19 , 19×10=190		
23	23×30=690 , 23×12=276 , 23×18= 414 , 23×1=23 , 23×10=230		
29	29×30=870 , 29×12=348 , 29×18=522 , 29×1=29 , 29×10=290		
31	31×30=930 , 31×12=372 , 31×18=558 , 31×1=31 , 31×10=310		
37	37×30=1110 , 37×12=444 , ,37×18=666 , 37×1=37 , 37×10=370		
41	4 1×30=1230 , 41×12=492 , 41×18=738 ,41×1=41 , 41×10=410		
43	43×30=1290 , 43×12=516 , 43×18=774 , 43×1=43 , 43×10=430		
47	47×30=1410 , 47×12=564 , 47×18=846 , 47×1=47 , 47×10=470		
49	49×30=1470 , 49×12=588 , 49×18=882 , 49×1=49 , 49×10=490		
53	53×30=1590 , 53×12=636 , 53×18=954 , 53×1=53 , 53×10=530		
59	……		
∞			

3-Step (the third) is clear as (the first step) in use, and results in the numbers of multiples of prime numbers, and these numbers must be crossed out in the list of numbers (first step), and the result is ordinally initial numbers.



13…. ∞

∞