

On Prime number generating formula.

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Abstract

Although there have been many attempts to obtain prime number generating formulas, the purpose of this study was to deepen our basic knowledge of prime numbers in order to create this prime number generating formula. I hope that this research will help to deepen our understanding of prime numbers.

General comments

In this article, I focus on the equation $f(x) = x^3 + 11x$.

x	$x^3 + 11x$	for prime
1	12	±1
2	30	±1
3	60	±1
4	108	±1
5	180	±1
6	282	±1
7	420	±1
8	600	±1
9	828	±1
10	1110	-1
11	1452	±1
12	1860	+1
13	2340	±1
14	2898	-1
15	3540	±1
16	4272	±1
17	5100	±1
18	6030	-1
19	7068	+1
20	8220	±1
21	9492	-1
22	10890	±1
23	12420	+1
24	14088	-1
25	15900	+1
26	17862	+1
27	19980	-1
28	22260	-1
29	24708	+1
30	27330	-1
31	30132	+1
32	33120	-1
33	36300	-1
34	39678	+1
35	43260	+1
36	47052	-1
37	51060	±1
38	55290	+1
39	59748	-1
40	64440	-1
41	69372	-1
42	74550	+1
43	79980	-1
44	85668	±1
45	91620	+1
46	97842	±1
47	104340	×
48	111120	±1
49	118188	+1
50	125550	+1
51	133212	+1
52	141180	±1
53	149460	-1
54	158058	×
55	166980	-1
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General thanks

It reaffirmed my fascination with research on prime numbers.