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A4124

J. Shalitz

Letter

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1 page only

New sequence to be entered

A4124

Discriminant of the cyclotomic polynomial $\Phi_n(x)$

n	disc ($\Phi_n(x)$)	
2	1	1
3	-3	-3
4	-2^2	-4
5	5^3	-125
6	-3	-3
7	-7^5	-16807
8	2^8	256
9	-3^9	-19683
10	5^3	125
11	-11^9	-2357947691
12	$2^4 \cdot 3^2$	144
13	13^{11}	1792160394037
14	-7^5	-16807
15	$3^4 \cdot 5^6$	1265625
16	2^{24}	16777216
17	17^{15}	2862423051509815793
18	-3^9	-19683
19	-19^{17}	-5480386857784802185939
20	$2^8 \cdot 5^6$	4000000
21	$3^6 \cdot 7^{10}$	205924456521
22	-11^9	-2357947691
23	-23^{21}	-39471584120695485887249589623
24	$2^{16} \cdot 3^4$	5308416

Name:

Discriminants of cyclotomic polynomials.

Ref:

Marcus
MAG 27.

~~Springer-Verlag, 1977~~

Marcus, Daniel.
Springer-Verlag, 1977

Number Fields
p. 27, 44

Sloane seq. 945.5-

Jeff Shallit 3/25/80
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