

TABLE DES RACINES PRIMITIVES ET DES CARACTÈRES QUI S'Y
RAPPORTENT POUR LES NOMBRES PREMIERS ENTRE
5000 ET 10000.¹

CALCULÉE PAR

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Pour les nombres premiers supérieurs à 5000 les racines primitives ont été calculées immédiatement. Elles ne coïncident pas toujours avec celles qu'on trouve dans la table de E. DESMAREST («Traité d'analyse indéterminée». Paris 1852), 1) parce que nous donnons pour tous les nombres premiers supérieurs à 5000 la plus petite, en valeur absolue, racine primitive, ce qui n'est pas toujours le cas chez DESMAREST; 2) parce que la table de DESMAREST contient des erreurs qui se sont signalées elles-mêmes dans le calcul des caractères.

p	$p-1$	g	Caractères
5003	2 · 41 · 61	2	$u = 410, v = 462$
5009	$2^4 · 313$	3	$f'' = -893, f' = 1018, f = -539, u = -625$
5011	2 · 3 · 5 · 167	2	$z = -2104, u = 273, v = -223$

¹ Reproduction de la table insérée dans la «Collection mathem. de Moscou» T. XXVII.

p	$p-1$	g	Caractères
5021	$2^3 \cdot 5 \cdot 251$	3	$f = -1363, u = -1318, v = 1161$
5023	$2 \cdot 3^4 \cdot 31$	- 2	$z''' = -1202, z'' = -2388, z' = -600,$ $z = -954, u = -2137$
5039	$2 \cdot 11 \cdot 229$	- 2	$u = -255, v = 1856$
5051	$2 \cdot 5^3 \cdot 101$	2	$u' = 2278, u = -106, v = -810$
5059	$2 \cdot 3^3 \cdot 281$	2	$z' = 1615, z = -1913, u = -924$
5077	$2^2 \cdot 3^3 \cdot 47$	2	$f = -858, z'' = 1373, z' = 2132, z = -1630, u = -734$
5081	$2^3 \cdot 5 \cdot 127$	3	$f' = 1284, f = 2412, u = -645, v = 2349$
5087	$2 \cdot 2543$	- 2	$u = 4$
5099	$2 \cdot 2549$	2	$u = 4$
5101	$2^2 \cdot 3 \cdot 5^2 \cdot 17$	6	$f = -101, z = -1615, u' = 1931,$ $u = -455, v = -1102$
5107	$2 \cdot 3 \cdot 23 \cdot 37$	2	$z = -312, u = 1869, v = 34$
5113	$2^3 \cdot 3^2 \cdot 71$	19	$f' = 909, f = -2025, z' = 619,$ $z = -72, u = -96$
5119	$2 \cdot 3 \cdot 853$	- 2	$z = -1683, u = 64$
5147	$2 \cdot 31 \cdot 83$	2	$u = -1428, v = 2252$
5153	$2^5 \cdot 7 \cdot 23$	5	$f''' = -2169, f'' = -128, f' = 925,$ $f = 227, u = -1521, v = -1863$
5167	$2 \cdot 3^3 \cdot 7 \cdot 41$	6	$z' = -5, z = -125, u = -600, v = 458$
5171	$2 \cdot 5 \cdot 11 \cdot 47$	2	$u = -787, v = 646, w = 1254$
5179	$2 \cdot 3 \cdot 863$	2	$z = 1497, u = 64$
5189	$2^3 \cdot 1297$	2	$f = -2446, u = 16$
5197	$2^2 \cdot 3 \cdot 433$	7	$f = -1969, z = 1878, u = -2430$
5209	$2^3 \cdot 3 \cdot 7 \cdot 31$	19	$f' = 1767, f = 2098, z = -1193,$ $u = -893, v = -2218$
5227	$2 \cdot 3 \cdot 13 \cdot 67$	2	$z = 451, u = -56, v = -2585$
5231	$2 \cdot 5 \cdot 523$	- 2	$u = 91, v = 1024$
5233	$2^4 \cdot 3 \cdot 109$	10	$f'' = -1262, f' = 1812, f = 2253,$ $z = -332, u = 2053$
5237	$2^2 \cdot 7 \cdot 11 \cdot 17$	3	$u = 1500, v = 1343, w = -135$
5261	$2^2 \cdot 5 \cdot 263$	2	$f = -827, u = -751, v = 1637$
5273	$2^3 \cdot 659$	3	$f' = 1539, f = 944, u = 1288$
5279	$2 \cdot 7 \cdot 13 \cdot 29$	- 3	$u = 2176, v = -1516, w = 2216$
5281	$2^5 \cdot 3 \cdot 5 \cdot 11$	7	$f''' = 2319, f'' = 1703, f' = 940,$ $f = 1673, z = 1403, u = 2190, v = -125$

p	$p-1$	g	Caractères
5297	$2^4 \cdot 331$	3	$f'' = -2044, f' = -1397, f = 2313, u = -1998$
5303	$2 \cdot 11 \cdot 241$	— 2	$u = 2169, v = -369$
5309	$2^3 \cdot 1327$	2	$f = 1804, u = 16$
5323	$2 \cdot 3 \cdot 887$	5	$z = 1282, u = -344$
5333	$2^2 \cdot 31 \cdot 43$	2	$f = 2630, u = -1663, v = 2454$
5347	$2 \cdot 3^5 \cdot 11$	3	$z^{IV} = -2161, z^{III} = -1402, z'' = 2828$ $z' = -808, z = -480, u = 1393$
5351	$2 \cdot 5^2 \cdot 107$	— 2	$u' = 17, u = 1842, v = 638$
5381	$2^2 \cdot 5 \cdot 269$	3	$f = -1739, u = -2047, v = -1360$
5387	$2 \cdot 2693$	2	$u = 4$
5393	$2^4 \cdot 337$	3	$f'' = 1476, f' = -196, f = 665, u = -205$
5399	$2 \cdot 2699$	— 2	$u = 4$
5407	$2 \cdot 3 \cdot 17 \cdot 53$	— 2	$z = -1043, u = 2232, v = 158$
5413	$2^2 \cdot 3 \cdot 11 \cdot 41$	5	$f = -429, z = 1224, u = -77, v = -129$
5417	$2^3 \cdot 677$	3	$f' = 979, f = -368, u = 1144$
5419	$2 \cdot 3^2 \cdot 7 \cdot 43$	3	$z' = -1448, z = -128, u = 64, v = -1013$
5431	$2 \cdot 3 \cdot 5 \cdot 181$	— 2	$z = 1533, u = 2419, v = 538$
5437	$2^3 \cdot 3^2 \cdot 151$	5	$f = -630, z' = -431, z = 2271, u = -2907$
5441	$2^6 \cdot 5 \cdot 17$	3	$f^{IV} = -1638, f^{III} = 631, f'' 968,$ $f' = 1172, f = 2452, u = 1685, v = 2664$ $z = 2588, u = 64$
5443	$2 \cdot 3 \cdot 907$	2	$z = 2588, u = 64$
5449	$2^3 \cdot 3 \cdot 227$	7	$f' = 78, f = 635, z = -1475, u = 960$
5471	$2 \cdot 5 \cdot 547$	— 3	$u = -1868, v = -1132$
5477	$2^2 \cdot 37^2$	2	$f = 74, u' = 16, u = -1286$
5479	$2 \cdot 3 \cdot 11 \cdot 83$	— 2	$z = -2703, u = 688, v = -1361$
5483	$2 \cdot 2741$	2	$u = 4$
5501	$2^2 \cdot 5^3 \cdot 11$	2	$f = 1115, u'' = -1911, u' = -362, u = -1600, v = -729$
5503	$2 \cdot 3 \cdot 7 \cdot 131$	3	$z = -930, u = -1038, v = -1248$
5507	$2 \cdot 2753$	2	$u = 4$
5519	$2 \cdot 31 \cdot 89$	— 2	$u = 967, v = -2684$
5521	$2^4 \cdot 3 \cdot 5 \cdot 23$	11	$f'' = 1860, f' = -2067, f = -765,$ $z = -341, u = 1374, v = 485$
5527	$2 \cdot 3^2 \cdot 307$	— 2	$z' = 1162, z = 876, u = 2375$
5531	$2 \cdot 5 \cdot 7 \cdot 79$	— 5	$u = -239, v = -1055, w = -2594$
5557	$2^3 \cdot 3 \cdot 463$	2	$f = 2478, z = 1827, u = -1461$
5563	$2 \cdot 3^3 \cdot 103$	2	$z'' = 1139, z' = -1004, z = 711, u = 2288$

p	$p-1$	g	Caractères
5569	$2^6 \cdot 87$	13	$f^{IV} = 241, f^{III} = 2391, f'' = -2482,$ $f' = 1010, f = 973, u = 448$
5573	$2^3 \cdot 7 \cdot 199$	2	$f = -2017, u = 159, v = 765$
5581	$2^3 \cdot 3^2 \cdot 5 \cdot 31$	10	$f = -1437, z' = -1448, z = -2459,$ $u = -1810, v = -1575$
5591	$2 \cdot 5 \cdot 13 \cdot 43$	- 2	$u = 1996, v = 759, w = -516$
5623	$2 \cdot 3 \cdot 937$	- 2	$z = 2013, u = 64$
5639	$2 \cdot 2819$	- 2	$u = 4$
5641	$2^3 \cdot 3 \cdot 5 \cdot 47$	14	$f' = -583, f = 1429, z = -2045,$ $u = 781, v = 486$
5647	$2 \cdot 3 \cdot 941$	- 2	$z = 853, u = 64$
5651	$2 \cdot 5^3 \cdot 113$	2	$u' = -1350, u = 246, v = 2129$
5653	$2^2 \cdot 3^2 \cdot 157$	5	$f = 310, z' = 289, z = -741, u = 357$
5657	$2^3 \cdot 7 \cdot 101$	3	$f' = -617, f = 1670, u = -1134, v = 727$
5659	$2 \cdot 3 \cdot 23 \cdot 41$	2	$z = -1465, u = -2651, v = -1177$
5669	$2^3 \cdot 13 \cdot 109$	3	$f = -1046, u = -2951, v = -674$
5683	$2 \cdot 3 \cdot 947$	2	$z = -1111, u = 64$
5689	$2^3 \cdot 3^2 \cdot 79$	14	$f' = -1340, f = -2124, z' = 1080$ $z = 2419, u = 2160$
5693	$2^2 \cdot 1423$	2	$f = 1193, u = 16$
5701	$2^2 \cdot 3 \cdot 5^2 \cdot 19$	2	$f = -385, z = 75, u' = -2421, u = 326, v = -2219$
5711	$2 \cdot 5 \cdot 571$	- 3	$u = 1402, v = 1939$
5717	$2^3 \cdot 1429$	2	$f = -2416, u = 16$
5737	$2^3 \cdot 3 \cdot 239$	5	$f' = -395, f = 1126, z = -2470, u = 1547$
5741	$2^2 \cdot 5 \cdot 7 \cdot 41$	2	$f = -2378, u = 1229, v = 457, w = 371$
5743	$2 \cdot 3^2 \cdot 11 \cdot 29$	- 2	$z' = 469, z = 200, u = -1691, v = 901$
5749	$2^2 \cdot 3 \cdot 479$	2	$f = -806, z = -331, u = -1653$
5779	$2 \cdot 3^3 \cdot 107$	2	$z'' = 2804, z' = -172, z = 2851, u = -2835$
5783	$2 \cdot 7^2 \cdot 59$	- 2	$u' = 442, u = -647, v = 1698$
5791	$2 \cdot 3 \cdot 5 \cdot 193$	- 2	$z = 1572, u = 576, v = -2232$
5801	$2^3 \cdot 5^2 \cdot 29$	3	$f' = -2605, f = -1145, u' = -2357,$ $u = -612, v = -1799$
5807	$2 \cdot 2903$	- 2	$u = 4$
5813	$2^2 \cdot 1453$	2	$f = 796, u = 16$
5821	$2^2 \cdot 3 \cdot 5 \cdot 97$	6	$f = -1242, z = 2148, u = 226, v = 2469$
5827	$2 \cdot 3 \cdot 971$	2	$z = 1350, u = 64$

p	$p-1$	g	Caractères
5839	$2 \cdot 3 \cdot 7 \cdot 139$	— 2	$z = 1854, u = -2853, v = -644$
5843	$2 \cdot 23 \cdot 127$	2	$u = 164, v = 708$
5849	$2^3 \cdot 17 \cdot 43$	3	$f' = 2014, f = -2839, u = -2771, v = -2119$
5851	$2 \cdot 3^2 \cdot 5^2 \cdot 13$	2	$z' = 2304, z = -578, u' = 1506,$ $u = -2035, v = -2550$
5857	$2^5 \cdot 3 \cdot 61$	7	$f''' = 1007, f'' = 788, f' = 102, f = -1310,$ $z = -1265, u = 1262$
5861	$2^2 \cdot 5 \cdot 293$	3	$f = -754, u = 386, v = -692$
5867	$2 \cdot 7 \cdot 419$	— 3	$u = -548, v = 1364$
5869	$2^2 \cdot 3^2 \cdot 163$	2	$f = 1042, z' = -1302, z = -778, u = 1326$
5879	$2 \cdot 2939$	— 2	$u = 4$
5881	$2^3 \cdot 3 \cdot 5 \cdot 7^2$	31	$f' = -779, f = 1098, z = -277,$ $u = -875, v' = -431, v = -1549$
5897	$2^3 \cdot 11 \cdot 67$	3	$f' = -661, f = 543, u = 227, v = 2495$
5903	$2 \cdot 13 \cdot 227$	— 2	$u = -2316, v = -2343$
5923	$2 \cdot 3^2 \cdot 7 \cdot 47$	2	$z' = -2816, z = -429, u = 2877, v = -2896$
5927	$2 \cdot 2963$	— 2	$u = 4$
5939	$2 \cdot 2969$	2	$u = 4$
5953	$2^6 \cdot 3 \cdot 31$	7	$f^{IV} = -2840, f''' = -715, f'' = -733, f' = 1519,$ $f = -2403, z = -870, u = 2808$
5981	$2^2 \cdot 5 \cdot 13 \cdot 23$	3	$f = 1317, u = -2263, v = 2796, w = -2799$
5987	$2 \cdot 41 \cdot 73$	2	$u = -1739, v = 746$
6007	$2 \cdot 3 \cdot 7 \cdot 11 \cdot 13$	3	$z = -78, u = 295, v = -1885, w = 1756$
6011	$2 \cdot 5 \cdot 601$	2	$u = 672, v = 1024$
6029	$2^2 \cdot 11 \cdot 137$	2	$f = 1801, u = 1726, v = 1406$
6037	$2^2 \cdot 3 \cdot 503$	5	$f = 2652, z = -510, u = -1692$
6043	$2 \cdot 3 \cdot 19 \cdot 53$	5	$z = 1715, u = -503, v = -1026$
6047	$2 \cdot 3023$	— 2	$u = 4$
6053	$2^2 \cdot 17 \cdot 89$	2	$f = 2832, u = 1207, v = 137$
6067	$2 \cdot 3^2 \cdot 337$	2	$z' = -1664, z = 665, u = 1263$
6073	$2^3 \cdot 3 \cdot 11 \cdot 23$	10	$f' = 2570, f = -2524, z = 1842, u = -1446, v = 2685$
6079	$2 \cdot 3 \cdot 1013$	— 7	$z = -1554, u = 2148$
6089	$2^3 \cdot 761$	3	$f' = -1798, f = -455, u = 472$
6091	$2 \cdot 3 \cdot 5 \cdot 7 \cdot 29$	7	$z = -745, u = -699, v = 2500, w = 1624$
6101	$2^2 \cdot 5^2 \cdot 61$	2	$f = 247, u' = 2598, u = 1774, v = 2058$
6113	$2^5 \cdot 191$	3	$f''' = 140, f'' = 1261, f' = 741, f = 1089, u = -811$

p	$p-1$	g	Caractères
6121	$2^3 \cdot 3^3 \cdot 5 \cdot 17$	7	$f' = -2087, f = -2583, z' = 1114,$ $z = -1153, u = 2234, v = 110$
6131	$2 \cdot 5 \cdot 613$	2	$u = -1020, v = 1024$
6133	$2^2 \cdot 3 \cdot 7 \cdot 73$	5	$f = 865, z = -950, u = 1690, v = -1642$
6143	$2 \cdot 37 \cdot 83$	— 2	$u = -2805, v = 2739$
6151	$2 \cdot 3 \cdot 5^2 \cdot 41$	3	$z = 207, u' = -1053, u = -1542, v = 1074$
6163	$2 \cdot 3 \cdot 13 \cdot 79$	3	$z = -79, u = 1319, v = -697$
6173	$2^2 \cdot 1543$	2	$f = -2447, u = 16$
6197	$2^3 \cdot 1549$	2	$f = 2007, u = 16$
6199	$2 \cdot 3 \cdot 1033$	— 2	$z = -2646, u = 64$
6203	$2 \cdot 7 \cdot 443$	2	$u = 168, v = -2225$
6211	$2 \cdot 3^3 \cdot 5 \cdot 23$	2	$z'' = 313, z' = 590, z = -137, u = -2226, v = 680$
6217	$2^3 \cdot 3 \cdot 7 \cdot 37$	5	$f' = -1649, f = 2372, z = -2460,$ $u = 580, v = 2654$
6221	$2^2 \cdot 5 \cdot 311$	3	$f = 1121, u = -1240, v = 995$
6229	$2^2 \cdot 3^2 \cdot 173$	2	$f = 1451, z' = 1262, z = -931, u = 2600$
6247	$2 \cdot 3^2 \cdot 347$	— 2	$z' = -1551, z = 2316, u = -230$
6257	$2^4 \cdot 17 \cdot 23$	3	$f'' = 1695, f' = 1062, f = 1584,$ $u = -1502, v = 232$
6263	$2 \cdot 31 \cdot 101$	— 2	$u = -2346, v = 2317$
6269	$2^2 \cdot 1567$	2	$f = 1523, u = 16$
6271	$2 \cdot 3 \cdot 5 \cdot 11 \cdot 19$	11	$z = 2020, u = 692, v = -1884, w = 1194$
6277	$2^2 \cdot 3 \cdot 523$	2	$f = 1033, z = 2308, u = -2181$
6287	$2 \cdot 7 \cdot 449$	— 2	$u = 2397, v = -2477$
6299	$2 \cdot 47 \cdot 67$	2	$u = 1577, v = -2046$
6301	$2^2 \cdot 3^2 \cdot 5^2 \cdot 7$	10	$f = -2184, z' = 2224, z = -2978$ $u' = 2304, u = 93, v = -1714$
6311	$2 \cdot 5 \cdot 631$	— 2	$u = -1654, v = 1024$
6317	$2^3 \cdot 1579$	2	$f = 1963, u = 16$
6323	$2 \cdot 29 \cdot 109$	2	$u = -2099, v = -1086$
6329	$2^3 \cdot 7 \cdot 113$	3	$f' = -2918, f = 2219, u = 2578, v = 2177$
6337	$2^6 \cdot 3^2 \cdot 11$	10	$f^V = -2521, f^{IV} = -570, f^{III} = 1713, f^I = 338,$ $f = 178, z' = 2176, z = -1513, u = 44$
6343	$2 \cdot 3 \cdot 7 \cdot 151$	— 2	$z = 557, u = 2674, v = -1481$
6353	$2^4 \cdot 397$	3	$f'' = -161, f' = 509, f = -1392, u = -1207$
6359	$2 \cdot 11 \cdot 17^2$	— 2	$u = 399, v' = -2636, v = 133$

p	$p-1$	g	Caractères
6361	$2^3 \cdot 3 \cdot 5 \cdot 53$	19	$f' = -3279, f = 1751, z = 1858, u = 399, v = 611$
6367	$2 \cdot 3 \cdot 1061$	- 2	$z = -770, u = 64$
6373	$2^2 \cdot 3^3 \cdot 59$	2	$f = -1879, z'' = -1159, z' = -2509,$ $z = 623, u = 372$
6379	$2 \cdot 3 \cdot 1063$	2	$z = -3007, u = 64$
6389	$2^2 \cdot 1597$	2	$f = -2092, u = 16$
6397	$2^2 \cdot 3 \cdot 13 \cdot 41$	2	$f = 1302, z = 2294, u = -1708, v = -1067$
6421	$2^2 \cdot 3 \cdot 5 \cdot 107$	6	$f = 825, z = 3104, u = 681, v = 603$
6427	$2 \cdot 3^3 \cdot 7 \cdot 17$	3	$z'' = 1264, z' = 2231, z = -1085,$ $u = -2944, v = 2712$
6449	$2^4 \cdot 13 \cdot 31$	3	$f'' = 2225, f' = -2207, f = 1854,$ $u = -2986, v = 501$
6451	$2 \cdot 3 \cdot 5^2 \cdot 43$	3	$z = 212, u' = 1301, u = 1968, v = -760$
6469	$2^2 \cdot 3 \cdot 7^2 \cdot 11$	2	$f = 2977, z = -1477, u' = -2549,$ $u = 1833, v = 3015$
6473	$2^3 \cdot 809$	3	$f' = 91, f = 1808, u = 88$
6481	$2^4 \cdot 3^4 \cdot 5$	7	$f'' = 483, f' = -27, f = 729, z''' = -2964,$ $z'' = -2785, z' = 2122, z = 80, u = -601$
6491	$2 \cdot 5 \cdot 11 \cdot 59$	2	$u = -700, v = -1550, w = -2761$
6521	$2^3 \cdot 5 \cdot 163$	6	$f' = -187, f = 2364, u = 1420, v = 50$
6529	$2^7 \cdot 51$	7	$f^V = 2338, f^{IV} = 1471, f^{III} = 2742, f'' = -2844,$ $f' = -1095, f = -2311, u = 246$
6547	$2 \cdot 3 \cdot 1091$	2	$z = -2333, u = 64$
6551	$2 \cdot 5^2 \cdot 131$	- 2	$u' = 902, u = 3261, v = -1757$
6553	$2^3 \cdot 3^2 \cdot 91$	10	$f' = -2672, f = -3186, z' = -2183,$ $z = 1944, u = -2678$
6563	$2 \cdot 17 \cdot 193$	5	$u = 1950, v = -698$
6569	$2^3 \cdot 821$	3	$f' = 736, f = 3038, u = -8$
6571	$2 \cdot 3^2 \cdot 5 \cdot 73$	3	$z' = 1450, z = 2979, u = 155, v = -1766$
6577	$2^4 \cdot 3 \cdot 137$	5	$f'' = -541, f' = -3284, f = 1624,$ $z = -354, u = -1686$
6581	$2^2 \cdot 5 \cdot 7 \cdot 47$	14	$f = 2727, u = 1928, v = -514, w = 2159$
6599	$2 \cdot 3299$	- 2	$u = 4$
6607	$2 \cdot 3^2 \cdot 367$	- 2	$z' = 2120, z = 1518, u = -2136$
6619	$2 \cdot 3 \cdot 1103$	2	$z = -570, u = 64$
6637	$2^2 \cdot 3 \cdot 7 \cdot 79$	2	$f = 2828, z = -1371, u = -704, v = -2834$

p	$p-1$	g	Caractères
6653	$2^3 \cdot 1663$	2	$f = 752, u = 16$
6659	$2 \cdot 3329$	2	$u = 4$
6661	$2^2 \cdot 3^2 \cdot 5 \cdot 37$	6	$f = 658, z' = 3157, z = -1349,$ $u = -2327, v = -3073$
6673	$2^4 \cdot 3 \cdot 139$	5	$f'' = -1142, f' 2929, f = -2437,$ $z = -1394, u = -69$
6679	$2 \cdot 3^2 \cdot 7 \cdot 59$	- 5	$z' = 3099, z = 942, u = 2422, v = 2619$
6689	$2^5 \cdot 11 \cdot 19$	3	$f''' = 3236, f'' = -3278, f' = 2750,$ $f = -2759, u = 717, v = -793$
6691	$2 \cdot 3 \cdot 5 \cdot 223$	2	$z = -2919, u = 1542, v = 3092$
6701	$2^2 \cdot 5^2 \cdot 67$	2	$f = 1721, u' = -2842, u = -2005, v = -644$
6703	$2 \cdot 3 \cdot 1117$	- 2	$z = 1480, u = 64$
6709	$2^2 \cdot 3 \cdot 13 \cdot 43$	2	$f = -2150, z = 1239, u = 1208, v = -511$
6719	$2 \cdot 3359$	- 2	$u = 4$
6733	$2^2 \cdot 3^2 \cdot 11 \cdot 17$	2	$f = 2217, z' = -2094, z = -620,$ $u = 736, v = -912$
6737	$2^4 \cdot 421$	3	$f'' = -2022, f' = 875, f = -2393, u = -2709$
6761	$2^3 \cdot 5 \cdot 13^2$	3	$f' = -1784, f = -1775, u = -3247,$ $v' = 2797, v = -1108$
6763	$2 \cdot 3 \cdot 7^2 \cdot 23$	2	$z = -2156, u' = -3243, u = 839, v = -1935$
6779	$2 \cdot 3389$	2	$u = 4$
6781	$2^2 \cdot 3 \cdot 5 \cdot 113$	2	$f = -995, z = 2926, u = -2072, v = -1027$
6791	$2 \cdot 5 \cdot 7 \cdot 97$	- 3	$u = 3062, v = 2672, w = -933$
6793	$2^3 \cdot 3 \cdot 283$	10	$f' = -958, f = 709, z = 1168, u = 2349$
6803	$2 \cdot 19 \cdot 179$	2	$u = -720, v = -2044$
6823	$2 \cdot 3^2 \cdot 379$	- 2	$z' = 1853, z = 2685, u = 2870$
6827	$2 \cdot 3413$	2	$u = 4$
6829	$2^2 \cdot 3 \cdot 569$	2	$f = 1596, z = 734, u = -2733$
6833	$2^4 \cdot 7 \cdot 61$	3	$f'' = 352, f' = 910, f = 1307, u = -1552, v = 1917$
6841	$2^3 \cdot 3^2 \cdot 5 \cdot 19$	22	$f' = 3095, f = 1625, z' = -2091,$ $z = 2808, u = -2735, v = -1009$
6857	$2^3 \cdot 857$	3	$f' = -596, f = -1348, u = -296$
6863	$2 \cdot 47 \cdot 73$	5	$u = 2642, v = -2968$
6869	$2^2 \cdot 17 \cdot 101$	2	$f = -998, u = -2749, v = -2992$
6871	$2 \cdot 3 \cdot 5 \cdot 229$	3	$z = 1466, u = -2522, v = -2072$
6883	$2 \cdot 3 \cdot 31 \cdot 37$	2	$z = -220, u = -2187, v = -1588$

p	$p-1$	g	Caractères
6899	2 · 3449	2	$u = 4$
6907	2 · 3 · 1151	2	$z = -1857, u = 64$
6911	2 · 5 · 691	— 2	$u = -761, v = 1024$
6917	$2^2 \cdot 7 \cdot 13 \cdot 19$	2	$f = -263, u = -2885, v = 1747, w = -2853$
6947	2 · 23 · 151	2	$u = 1035, v = -1027$
6949	$2^2 \cdot 3^2 \cdot 193$	2	$f = 932, z' = -2234, z = 1942, u = -2703$
6959	$2 \cdot 7^2 \cdot 71$	— 3	$u' = -3475, u = -2158, v = 1228$
6961	$2^4 \cdot 3 \cdot 5 \cdot 29$	13	$f'' = 3069, f' = 528, f = 344, z = 507,$ $u = -880, v = -2817$
6967	$2 \cdot 3^4 \cdot 43$	5	$z''' = -1559, z'' = 1510, z' = -1060,$ $z = -383, u = 1933$
6971	2 · 5 · 17 · 41	2	$u = 3439, v = 226, w = 1156$
6977	$2^6 \cdot 109$	3	$f^{IV} = -3055, f''' = -2201, f'' = 2363,$ $f' = 2169, f = 2063, u = 288$
6983	2 · 3491	— 2	$u = 4$
6991	2 · 3 · 5 · 233	— 2	$z = -1382, u = 1530, v = 1125$
6997	$2^2 \cdot 3 \cdot 11 \cdot 53$	5	$f = 1796, z = -2909, u = -2197, v = -2932$
7001	$2^3 \cdot 5^3 \cdot 7$	3	$f' = 3477, f = -1198, u'' = -2748$ $u' = -878, u = 3403, v = -1347$
7013	$2^2 \cdot 1753$	2	$f = 2480, u = 16$
7019	$2 \cdot 11^2 \cdot 29$	2	$u' = 1323, u = 3100, v = -766$
7027	2 · 3 · 1171	2	$z = -524, u = 64$
7039	$2 \cdot 3^2 \cdot 17 \cdot 23$	— 2	$z' = 2577, z = -302, u = 1762, v = -2558$
7043	$2 \cdot 7 \cdot 503$	2	$u = -153, v = 2298$
7057	$2^4 \cdot 3^2 \cdot 7^2$	5	$f'' = -517, f' = -877, f = -84, z' = 2715,$ $z = 145, u' = 2756, u = -1290$
7069	$2^2 \cdot 3 \cdot 19 \cdot 31$	2	$f = -188, z = -2041, u = -2169, v = 822$
7079	2 · 3539	— 2	$u = 4$
7103	2 · 53 · 67	— 2	$u = -2531, v = 1036$
7109	$2^2 \cdot 1777$	2	$f = 304, u = 16$
7121	$2^4 \cdot 5 \cdot 89$	3	$f''' = -1899, f' = -2975, f = -778,$ $u = -2617, v = -616$
7127	2 · 7 · 509	— 2	$u = -2872, v = 2130$
7129	$2^3 \cdot 3^4 \cdot 11$	7	$f' = -86, f = 267, z''' = 470, z'' = 3373,$ $z' = -1562, z = -1250, u = -1230$
7151	$2 \cdot 5^2 \cdot 11 \cdot 13$	— 3	$u' = 2422, u = -630, v = 337, w = 2174$

p	$p-1$	g	Caractères
7159	2.3.1193	— 2	$z = -2881, u = 64$
7177	$2^3 \cdot 3 \cdot 13 \cdot 23$	10	$f' = 1581, f = 1965, z = -2039,$ $u = 3569, v = -3355$
7187	2.3593	2	$u = 4$
7193	$2^3 \cdot 29 \cdot 31$	3	$f' = 2324, f = -967, u = 158, v = 1067$
7207	2.3.1201	— 2	$z = -1839, u = 64$
7211	2.5.7.103	2	$u = -2676, v = -2941, w = 2604$
7213	$2^3 \cdot 3 \cdot 601$	5	$f = 1999, z = -2603, u = 2214$
7219	$2 \cdot 3^3 \cdot 401$	2	$z' = -584, z = 2725, u = 2260$
7229	$2^3 \cdot 13 \cdot 139$	2	$f = 3572, u = 2256, v = 2284$
7237	$2^3 \cdot 3^3 \cdot 67$	5	$f = 2502, z'' = 1463, z' = -3209,$ $z = -1831, u = 3164$
7243	2.3.17.71	2	$z = 3426, u = 900, v = -1989$
7247	2.3623	— 2	$u = 4$
7253	$2^2 \cdot 7^2 \cdot 37$	3	$f = 2211, u' = 311, u = 3268, v = 2636$
7283	2.11.331	2	$u = 1687, v = -704$
7297	$2^7 \cdot 3 \cdot 19$	5	$f^V = 383, f^{IV} = 749, f^{III} = -868, f'' = 1833,$ $f' = 3269, f = 3553, z = 3535, u = 1691$
7307	2.13.281	2	$u = 1573, v = 1376$
7309	$2^3 \cdot 3^3 \cdot 7 \cdot 29$	6	$f = 2717, z' = 2025, z = 3416, u = -457, v = 1244$
7321	$2^3 \cdot 3 \cdot 5 \cdot 61$	7	$f' = 11, f = 121, z = 308, u = -1925, v = -2076$
7331	2.5.733	2	$u = -458, v = 1024$
7333	$2^3 \cdot 3 \cdot 13 \cdot 47$	6	$f = 2909, z = -3063, u = 1219, v = -2651$
7349	$2^2 \cdot 11 \cdot 167$	2	$f = 2061, u = -874, v = -1694$
7351	$2 \cdot 3 \cdot 5^2 \cdot 7^2$	— 5	$z = -149, u' = -1694, u = 119$ $v' = 247, v = -680$
7369	$2^3 \cdot 3 \cdot 307$	7	$f' = 1171, f = 607, z = -2560, u = -516$
7393	$2^5 \cdot 3 \cdot 7 \cdot 11$	5	$f^{III} = -1507, f'' = 1398, f' = 2652,$ $f = 2361, z = 1717, u = 1711, v = -3244$
7411	2.3.5.13.19	2	$z = 394, u = 1542, v = -3444, w = 417$
7417	$2^3 \cdot 3^3 \cdot 103$	5	$f' = 2198, f = 2737, z' = 2587, z = 2312, u = 2138$
7433	$2^3 \cdot 929$	3	$f' = 146, f = -983, u = -872$
7451	$2 \cdot 5^2 \cdot 149$	2	$u' = -2380, u = 2963, v = -2502$
7457	$2^5 \cdot 233$	3	$f^{III} = 2542, f'' = -3455, f' = -1632,$ $f = 1275, u = 1295$
7459	2.3.11.113	2	$z = -229, u = 2958, v = 2261$

p	$p-1$	g	Caractères
7477	$2^2 \cdot 3 \cdot 7 \cdot 89$	2	$f = 1652, z = 3468, u = 716, v = 1515$
7481	$2^3 \cdot 5 \cdot 11 \cdot 17$	6	$f' = -348, f = 1408, u = 1270, v = -1364, w = 3668$
7487	$2 \cdot 19 \cdot 197$	- 3	$u = 634, v = 1584$
7489	$2^6 \cdot 3^2 \cdot 13$	7	$f^{IV} = -1384, f''' = -1728, f'' = -2127, f' = 773,$ $f = -1591, z' = -3151, z = -2468, u = 1709$
7499	$2 \cdot 23 \cdot 163$	2	$u = -211, v = 3054$
7507	$2 \cdot 3^3 \cdot 139$	2	$z'' = -1950, z' = 904, z = -606, u = -1882$
7517	$2^2 \cdot 1879$	2	$f = -3409, u = 16$
7523	$2 \cdot 3761$	2	$u = 4$
7529	$2^3 \cdot 941$	3	$f' = 292, f = 2445, u = -968$
7537	$2^4 \cdot 3 \cdot 157$	7	$f'' = -3103, f' = -3677, f = -1049$ $z = 1962, u = 418$
7541	$2^2 \cdot 5 \cdot 13 \cdot 29$	2	$f = 2867, u = -318, v = 1961, w = -2552$
7547	$2 \cdot 7^3 \cdot 11$	2	$u'' = -1828, u' = 1860, u = -402, v = -556$
7549	$2^2 \cdot 3 \cdot 17 \cdot 37$	2	$f = 2931, z = 528, u = 798, v = -1678$
7559	$2 \cdot 3779$	- 2	$u = 4$
7561	$2^3 \cdot 3^3 \cdot 5 \cdot 7$	13	$f' = 3109, f = 2923, z'' = 2478, z' = 24,$ $z = -1298, u = -2474, v = -3702$
7573	$2^2 \cdot 3 \cdot 631$	2	$f = 3743, z = -2058, u = -3477$
7577	$2^3 \cdot 947$	3	$f' = -2474, f = -1540, u = -1016$
7583	$2 \cdot 17 \cdot 223$	- 2	$u = 1885, v = -1207$
7589	$2^2 \cdot 7 \cdot 271$	2	$f = 3270, u = -3172, v = -2652$
7591	$2 \cdot 3 \cdot 5 \cdot 11 \cdot 23$	- 2	$z = -2454, u = 2708, v = -412, w = 2465$
7603	$2 \cdot 3 \cdot 7 \cdot 181$	2	$z = -2095, u = 1034, v = 1134$
7607	$2 \cdot 3803$	- 2	$u = 4$
7621	$2^2 \cdot 3 \cdot 5 \cdot 127$	2	$f = 2038, z = 3124, u = 383, v = 2884$
7639	$2 \cdot 3 \cdot 19 \cdot 67$	- 5	$z = 2975, u = 1577, v = -901$
7643	$2 \cdot 3821$	2	$u = 4$
7649	$2^5 \cdot 329$	3	$f''' = -3252, f'' = -3063, f' = -3354,$ $f = -2363, u = -551$
7669	$2^2 \cdot 3^3 \cdot 71$	2	$f = -2292, z'' = -477, z' = 355,$ $z = -2071, u = 808$
7673	$2^3 \cdot 7 \cdot 137$	3	$f' = -86, f = -277, u = 1693, v = -2323$
7681	$2^3 \cdot 3 \cdot 5$	17	$f^{VII} = 535, f^{VI} = 2028, f^V = 3449, f^{IV} = -2268,$ $f''' = -2446, f'' = -583, f' = 1925,$ $f = 3383, z = 684, u = -2586$

p	$p-1$	g	Caractères
7687	$2 \cdot 3^2 \cdot 7 \cdot 61$	— 2	$z' = 1143, z = 2274, u = -3568, v = 84$
7691	$2 \cdot 5 \cdot 769$	2	$u = -1512, v = 1024$
7699	$2 \cdot 3 \cdot 1283$	3	$z = 2269, u = 729$
7703	$2 \cdot 3851$	— 2	$u = 4$
7717	$2^2 \cdot 3 \cdot 643$	2	$f = -2953, z = -3440, u = -3621$
7723	$2 \cdot 3^3 \cdot 11 \cdot 13$	3	$z'' = 479, z' = -3774, z = 917, u = 2429, v = 2829$
7727	$2 \cdot 3863$	— 2	$u = 4$
7741	$2^2 \cdot 3^2 \cdot 5 \cdot 43$	7	$f = 3199, z' = 2281, z = 2452, u = -2508, v = -2764$
7753	$2^3 \cdot 3 \cdot 17 \cdot 19$	10	$f' = -3560, f = -2555, z = -404,$ $u = 946, v = 310$
7757	$2^3 \cdot 7 \cdot 277$	2	$f = -812, u = 2302, v = -3286$
7759	$2 \cdot 3^3 \cdot 431$	— 2	$z' = 2191, z = 1759, u = -1662$
7789	$2^3 \cdot 3 \cdot 11 \cdot 59$	2	$f = -3378, z = 233, u = -582, v = -1634$
7793	$2^4 \cdot 487$	3	$f'' = -3609, f' = 2778, f = 2214, u = -1811$
7817	$2^3 \cdot 977$	3	$f' = -955, f = -2564, u = -2256$
7823	$2 \cdot 3911$	— 2	$u = 4$
7829	$2^3 \cdot 19 \cdot 103$	2	$f = 2037, u = 2039, v = 3450$
7841	$2^5 \cdot 5 \cdot 7^2$	13	$f''' = -710, f'' = 2276, f' = -2725,$ $f = 198, u = 3308, v' = -508, v = 3727$
7853	$2^3 \cdot 13 \cdot 151$	2	$f = 1759, u = 1873, v = -1480$
7867	$2 \cdot 3^2 \cdot 19 \cdot 23$	3	$z' = 2407, z = 1465, u = -2712, v = -2374$
7873	$2^6 \cdot 3 \cdot 41$	5	$f^V = 2000, f''' = 516, f'' = -1426, f' = 2242,$ $f = 3590, z = -1395, u = -137$
7877	$2^2 \cdot 11 \cdot 179$	2	$f = -320, u = 774, v = -1952$
7879	$2 \cdot 3 \cdot 13 \cdot 101$	— 2	$z = -1367, u = -3867, v = -3516$
7883	$2 \cdot 7 \cdot 563$	2	$u = -3720, v = 618$
7901	$2^2 \cdot 5^2 \cdot 79$	2	$f = -3346, u' = -3249, u = -3848, v = -2146$
7907	$2 \cdot 59 \cdot 67$	2	$u = 503, v = 1703$
7919	$2 \cdot 37 \cdot 107$	— 2	$u = -2096, v = -1468$
7927	$2 \cdot 3 \cdot 1321$	3	$z = -3760, u = 729$
7933	$2^2 \cdot 3 \cdot 611$	2	$f = 2950, z = -2006, u = -3837$
7937	$2^3 \cdot 31$	3	$f^VI = 2805, f^V = 2458, f^IV = 1707, f^III = 970,$ $f^II = -3603, f' = -3323, f = 1962, u = -1304$
7949	$2^3 \cdot 1987$	2	$f = 679, u = 16$
7951	$2 \cdot 3 \cdot 5^2 \cdot 53$	— 2	$z = -322, u' = 3524, u = -1918, v = -1957$
7963	$2 \cdot 3 \cdot 1327$	5	$z = 1623, u = -301$

p	$p-1$	g	Caractères
7993	$2^3 \cdot 3^3 \cdot 37$	5	$f' = 1654, f = 2110, z'' = -187,$ $z' = -929, z = -3245, u = -1683$
8009	$2^3 \cdot 7 \cdot 11 \cdot 13$	3	$f' = -2017, f = 283, u = -811,$ $v = 3933, w = -2500$
8011	$2 \cdot 3^3 \cdot 5 \cdot 89$	- 7	$z' = 2019, z = -90, u = -3477, v = -2361$
8017	$2^4 \cdot 3 \cdot 167$	5	$f'' = -1160, f' = -1256, f = -1813,$ $z = -2643, u = -3910$
8039	$2 \cdot 4019$	- 2	$u = 4$
8053	$2^2 \cdot 3 \cdot 11 \cdot 61$	2	$f = 370, z = 3497, u = 2180, v = -1359$
8059	$2 \cdot 3 \cdot 17 \cdot 79$	3	$z = -2766, u = 2571, v = 913$
8069	$2^3 \cdot 2017$	2	$f = -2732, u = 16$
8081	$2^4 \cdot 5 \cdot 101$	3	$f'' = 1977, f' = -2675, f = 3940,$ $u = -3732, v = -1113$
8087	$2 \cdot 13 \cdot 311$	- 2	$u = 1699, v = 2938$
8089	$2^3 \cdot 3 \cdot 337$	17	$f' = -1455, f = -2293, z = -1414, u = 2401$
8093	$2^2 \cdot 7 \cdot 17^2$	2	$f = -3060, u = -1895, v' = -1261, v = 2474$
8101	$2^2 \cdot 3^4 \cdot 5^2$	6	$f = -90, z''' = -44, z'' = 3927, z' = -1183,$ $z = -2218, u' = 16, u = 3547$
8111	$2 \cdot 5 \cdot 811$	- 2	$u = -2568, v = 1024$
8117	$2^2 \cdot 2029$	2	$f = -1733, u = 16$
8123	$2 \cdot 31 \cdot 131$	2	$u = -1661, v = 570$
8147	$2 \cdot 4073$	2	$u = 4$
8161	$2^5 \cdot 3 \cdot 5 \cdot 17$	7	$f''' = -2993, f'' = -2729, f' = -3552,$ $f = -202, z = -2904, u = -1828, v = 3813$
8167	$2 \cdot 3 \cdot 1361$	3	$z = 3092, u = 729$
8171	$2 \cdot 5 \cdot 19 \cdot 43$	2	$u = -3311, v = -63, w = 2478$
8149	$2 \cdot 3 \cdot 29 \cdot 47$	2	$z = 1096, u = -4066, v = 1715$
8191	$2 \cdot 3^2 \cdot 5 \cdot 7 \cdot 13$	- 11	$z' = 2723, z = -91, u = -3397,$ $v = -1428, w = 64$
8209	$2^4 \cdot 3^2 \cdot 57$	7	$f'' = 1201, f' = -2383, f = -1039,$ $z' = -2144, z = 3265, u = 1957$
8219	$2 \cdot 7 \cdot 587$	2	$u = -3274, v = -54$
8221	$2^2 \cdot 3 \cdot 5 \cdot 137$	2	$f = 3745, z = 415, u = 2822, v = -3589$
8231	$2 \cdot 5 \cdot 823$	- 2	$u = 3032, v = 1024$
8233	$2^3 \cdot 3 \cdot 7^3$	10	$f' = 2752, f = -856, z = 2612, u'' = -1699,$ $u' = -1672, u = 2187$

p	$p-1$	g	Caractères
8237	$2^3 \cdot 29 \cdot 71$	3	$f = 287, u = 2142, v = 992$
8243	$2 \cdot 13 \cdot 317$	2	$u = -3293, v = 2601$
8263	$2 \cdot 3^5 \cdot 17$	— 2	$z^{IV} = 1468, z^{III} = 3052, z'' = -3057,$ $z' = 3903, z = 240, u = -3108$
8269	$2^2 \cdot 3 \cdot 13 \cdot 53$	2	$f = 643, z = -158, u = 3266, v = 2042$
8273	$2^4 \cdot 11 \cdot 47$	3	$f'' = -528, f' = -2498, f = 2162,$ $u = -485, v = 2557$
8287	$2 \cdot 3 \cdot 1381$	3	$z = 568, u = 729$
8291	$2 \cdot 5 \cdot 829$	2	$u = 3333, v = 1024$
8293	$2^2 \cdot 3 \cdot 691$	2	$f = 531, z = -2051, u = 4096$
8297	$2^3 \cdot 17 \cdot 61$	3	$f' = -3899, f = 2097, u = 1813, v = 463$
8311	$2 \cdot 3 \cdot 5 \cdot 277$	— 2	$z = 1266, u = 3963, v = 2179$
8317	$2^2 \cdot 3^3 \cdot 7 \cdot 11$	6	$f = -1371, z'' = -2490, z' = -724,$ $z = 1286, u = 1538, v = -3563$
8329	$2^3 \cdot 3 \cdot 347$	7	$f' = -2825, f = 1443, z = -1053, u = 1328$
8353	$2^6 \cdot 3^2 \cdot 29$	5	$f''' = 1516, f'' = 1181, f' = -190,$ $f = 2688, z' = 1952, z = 1736, u' = -2024$
8363	$2 \cdot 37 \cdot 113$	2	$u = -805, v = 3165$
8369	$2^4 \cdot 523$	3	$f'' = -1257, f' = -1692, f = 666, u = -3415$
8377	$2^3 \cdot 3 \cdot 349$	5	$f' = 290, f = 330, z = 813, u = 3268$
8387	$2 \cdot 7 \cdot 599$	2	$u = -1011, v = -390$
8389	$2^2 \cdot 3^2 \cdot 233$	6	$f = 3449, z' = 3314, z = 691, u = 1688$
8419	$2 \cdot 3 \cdot 23 \cdot 61$	3	$z = 1961, u = 407, v = 2354$
8423	$2 \cdot 4211$	— 2	$u = 4$
8429	$2^2 \cdot 7^2 \cdot 43$	2	$f = 2190, u' = -1717, u = -2180, v = -1496$
8431	$2 \cdot 3 \cdot 5 \cdot 281$	— 2	$z = 2147, u = 1145, v = 3388$
8443	$2 \cdot 3^2 \cdot 7 \cdot 67$	2	$z' = -2027, z = 1035, u = 1017, v = 2484$
8447	$2 \cdot 41 \cdot 103$	— 2	$u = -3920, v = 78$
8461	$2^2 \cdot 3^2 \cdot 5 \cdot 47$	6	$z' = 2883, z = -1777, u = 2455, v = 3177$
8467	$2 \cdot 3 \cdot 17 \cdot 83$	2	$z = -4188, u = -3893, v = -2604$
8501	$2^2 \cdot 5^3 \cdot 17$	7	$f = -4020, u'' = -3432, u' = 458,$ $u = 3215, v = -1766$
8513	$2^6 \cdot 7 \cdot 19$	5	$f^{IV} = -3398, f''' = 2776, f'' = 1911, f' = 156,$ $f = -1203, u = -3985, v = 2522$
8521	$2^3 \cdot 3 \cdot 5 \cdot 71$	13	$f' = 774, f = 2606, z = 2024, u = 2302, v = -1332$
8527	$2 \cdot 3 \cdot 7^2 \cdot 29$	— 2	$z = 2976, u' = -1604, u = 3767, v = -149$

Table des racines primitives pour les nombres premiers entre 5000 et 10000. 247

p	$p-1$	g	Caractères
8537	$2^3 \cdot 11 \cdot 97$	3	$f' = -3053, f = -1595, u = 3375, v = -518$
8539	$2 \cdot 3 \cdot 1423$	2	$z = 2552, u = 64$
8543	$2 \cdot 4271$	- 2	$u = 4$
8563	$2 \cdot 3 \cdot 1427$	2	$z = 2823, u = 64$
8573	$2^2 \cdot 2143$	2	$f = -2195, u = 16$
8581	$2^2 \cdot 3 \cdot 5 \cdot 11 \cdot 13$	7	$f = 131, z = 424, u = 314, v = 2008, w = 1046$
8597	$2^2 \cdot 7 \cdot 307$	2	$f = -2318, u = 368, v = 2728$
8599	$2 \cdot 3 \cdot 1433$	- 2	$z = -1206, u = 64$
8609	$2^5 \cdot 269$	3	$f''' = -1522, f'' = 663, f' = 510, f = 1830, u = 345$
8623	$2 \cdot 3^2 \cdot 479$	- 2	$z' = 3374, z = 1545, u = 3454$
8627	$2 \cdot 19 \cdot 227$	2	$u = -1055, v = -1334$
8629	$2^2 \cdot 3 \cdot 719$	6	$f = -4123, z = 3306, u = -3720$
8641	$2^6 \cdot 3^3 \cdot 5$	17	$f^{IV} = 3356, f''' = 3513, f'' = 1821, f' = -2103,$ $f = -1583, z'' = 783, z' = -2068,$ $z = -3573, u = -997$
8647	$2 \cdot 3 \cdot 11 \cdot 131$	- 2	$z = 794, u = -2241, v = -3168$
8663	$2 \cdot 61 \cdot 71$	- 2	$u = 2735, v = 1652$
8669	$2^2 \cdot 11 \cdot 197$	2	$f = -3876, u = -2046, v = -1869$
8677	$2^2 \cdot 3^2 \cdot 241$	2	$f = 3963, z' = -569, z = 1378, u = -3120$
8681	$2^3 \cdot 5 \cdot 7 \cdot 31$	15	$f' = 2072, f = -3911, u = -2715,$ $v = -4067, w = -4096$
8689	$2^4 \cdot 3 \cdot 181$	13	$f'' = -2753, f' = 2201, f = -4061,$ $z = 1903, u = -426$
8693	$2^2 \cdot 41 \cdot 53$	2	$f = 4048, u = 2427, v = 618$
8699	$2 \cdot 4349$	2	$u = 4$
8707	$2 \cdot 3 \cdot 1451$	5	$z = -2414, u = -1789$
8713	$2^3 \cdot 3^2 \cdot 11^2$	5	$f' = -1345, f = -3279, z' = -2551,$ $z = -2538, u' = -58, u = 1626$
8719	$2 \cdot 3 \cdot 1453$	3	$z = 2281, u = 729$
8731	$2 \cdot 3^2 \cdot 5 \cdot 97$	2	$z' = 4079, z = 3658, u = -1732, v = -3509$
8737	$2^5 \cdot 3 \cdot 7 \cdot 13$	5	$f''' = -1658, f'' = -3191, f' = 3876, f = -4264,$ $z = 2268, u = -852, v = -3007$
8741	$2^2 \cdot 5 \cdot 19 \cdot 23$	2	$f = -3320, u = -4115, v = -1445, w = 1992$
8747	$2 \cdot 4373$	2	$u = 4$
8753	$2^4 \cdot 547$	3	$f'' = -4288, f' = -3109, f = 2569, u = -533$
8761	$2^3 \cdot 3 \cdot 5 \cdot 73$	23	$f' = 1900, f = 468, z = 1733, u = -3727, v = -4282$

p	$p-1$	g	Caractères
8779	2.3.7.11.19	11	$z = -1268, u = -4352, v = -1589, w = -104$
8783	2.4391	— 2	$u = 4$
8803	2.3 ³ .163	2	$z'' = 2726, z' = 1696, z = -989, u = -3919$
8807	2.7.17.37	— 2	$u = -631, v = -4238, w = 3412$
8819	2.4409	2	$u = 4$
8821	2 ² .3 ² .5.7 ²	2	$f = 297, z' = -3509, z = -2437,$ $u = -3909, v' = -4314, v = 3694$
8831	2.5.883	— 5	$u = 920, v = -1461$
8837	2 ³ .47 ²	2	$f = 94, u' = 16, u = 3360$
8839	2.3 ² .491	— 2	$z' = 2685, z = 4372, u = -3026$
8849	2 ⁴ .7.79	3	$f'' = 2231, f' = 4223, f = 2994,$ $u = -2466, v = -3759$
8861	2 ² .5.443	2	$f = -1791, u = -1662, v = 2978$
8863	2.3.7.211	3	$z = -1462, u = -245, v = 2371$
8867	2.11.13.31	2	$u = 2286, v = 4032, w = -1177$
8887	2.3.1481	— 2	$z = -4228, u = 64$
8893	2 ² .3 ² .13.19	5	$f = -2851, z' = -2451, z = 249,$ $u = 1997, v = 3142$
8923	2.3.1487	2	$z = -3848, u = 64$
8929	2 ⁶ .3 ² .31	11	$f''' = -308, f'' = -3355, f' = 3444, f = 3424,$ $z' = -4129, z = 4339, u = -3817$
8933	2 ² .7.11.29	2	$f = 762, u = 3868, v = -135, w = -4280$
8941	2 ² .3.5.149	6	$f = -3080, z = 1640, u = -1017, v = 1428$
8951	2.5 ² .179	— 2	$u' = 3135, u = 2910, v = 2671$
8963	2.4481	2	$u = 4$
8969	2 ³ .19.59	3	$f' = 591, f = 510, u = -3205, v = 539$
8977	2.3.5.13.23	2	$z = -342, u = -3888, v = 999, w = -1794$
8999	2.11.409	— 2	$u = 870, v = 770$
9001	2 ³ .3 ² .5 ³	7	$f' = 2614, f = 1237, z' = 2542, z = -3799,$ $u'' = -2820, u' = -2660, u = -1548$
9007	2.3.19.79	— 2	$z = 1094, u = -726, v = 4338$
9011	2.5.17.53	2	$u = -2625, v = -3953, w = 1401$
9013	2 ² .3.751	5	$f = -1658, z = -3326, u = -3519$
9029	2 ² .37.61	2	$f = 4467, u = -828, v = 2167$
9041	2 ⁴ .5.113	3	$f'' = 1778, f' = -3066, f = -2884,$ $u = -3516, v = -4398$

Table des racines primitives pour les nombres premiers entre 5000 et 10000. 249

p	$p-1$	g	Caractères
9043	$2 \cdot 3 \cdot 11 \cdot 137$	3	$z = -3153, u = -1534, v = 2001$
9049	$2^3 \cdot 3 \cdot 377$	7	$f' = -1468, f = 1362, z = 845, u = 2638$
9059	$2 \cdot 7 \cdot 647$	2	$u = 2118, v = -1734$
9067	$2 \cdot 3 \cdot 1511$	3	$z = 1081, u = 729$
9091	$2 \cdot 3^3 \cdot 5 \cdot 101$	3	$z' = -1238, z = -3389, u = 100, v = 4329$
9103	$2 \cdot 3 \cdot 37 \cdot 41$	- 2	$z = 4379, u = -3772, v = 790$
9109	$2^2 \cdot 3^2 \cdot 11 \cdot 23$	10	$f = 1986, z' = 1647, z = 3120, u = 197, v = -2699$
9127	$2 \cdot 3^3 \cdot 13^2$	- 2	$z'' = 2922, z' = 1155, z = -3011,$ $u' = -3036, u = -1068$
9133	$2^2 \cdot 3 \cdot 761$	6	$f = -3732, z = -3798, u = -4283$
9137	$2^4 \cdot 571$	3	$f'' = 1434, f' = 531, f = -1286, u = -2314$
9151	$2 \cdot 3 \cdot 5^2 \cdot 61$	- 2	$z = 1175, u' = 549, u = 2005, v = 1525$
9157	$2^2 \cdot 3 \cdot 7 \cdot 109$	6	$f = 2203, z = -1294, u = 387, v = -1746$
9161	$2^3 \cdot 5 \cdot 229$	3	$f' = 4084, f = -3125, u = 625, v = -2695$
9173	$2^2 \cdot 2293$	2	$f = -2514, u = 16$
9181	$2^2 \cdot 3^3 \cdot 5 \cdot 17$	2	$f = 303, z'' = -1244, z' = 1563,$ $z = 1009, u = -1764, v = 2528$
9187	$2 \cdot 3 \cdot 1531$	3	$z = 4121, u = 729$
9199	$2 \cdot 3^2 \cdot 7 \cdot 73$	- 2	$z' = 2241, z = 3767, u = -393, v = -491$
9203	$2 \cdot 43 \cdot 107$	2	$u = 2271, v = 645$
9209	$2^3 \cdot 1151$	3	$f' = -3382, f = 346, u = -2648$
9221	$2^3 \cdot 5 \cdot 761$	2	$f = 3300, u = -2698, v = -2618$
9227	$2 \cdot 7 \cdot 659$	2	$u = 3739, v = -2070$
9239	$2 \cdot 31 \cdot 149$	- 2	$u = 3035, v = 2386$
9241	$2^3 \cdot 3 \cdot 5 \cdot 7 \cdot 11$	13	$f' = 4442, f = 1829, z = -167, u = 3564,$ $v = -570, w = -4583$
9257	$2^3 \cdot 13 \cdot 89$	3	$f' = 2883, f = -1097, u = -4352, v = 3912$
9277	$2^2 \cdot 3 \cdot 773$	5	$f = -888, z = -602, u = -2184$
9281	$2^5 \cdot 5 \cdot 29$	3	$f^{IV} = 3159, f^{III} = 2206, f'' = 3192, f' = -1674,$ $f = -586, u = -4189, v = 1614$
9283	$2 \cdot 3 \cdot 7 \cdot 13 \cdot 17$	2	$z = -2844, u = 2961, v = -3490, w = -1132$
9293	$2^2 \cdot 23 \cdot 101$	2	$f = -482, u = -1845, v = 296$
9311	$2 \cdot 5 \cdot 7^2 \cdot 19$	- 2	$u = 2405, v' = 3219, v = 764, w = 4239$
9319	$2 \cdot 3 \cdot 1553$	- 2	$z = -3139, u = 64$
9323	$2 \cdot 59 \cdot 79$	2	$u = 4606, v = 1769$
9337	$2^3 \cdot 3 \cdot 389$	5	$f' = -1847, f = 3404, z = -4400, u = -483$

p	$p-1$	g	Caractères
934I	$2^2 \cdot 5 \cdot 467$	2	$f = -2638, u = 3695, v = 2384$
9343	$2 \cdot 3^3 \cdot 173$	- 2	$z'' = -384, z' = -4524, z = 3230, u = -2922$
9349	$2^2 \cdot 3 \cdot 19 \cdot 41$	2	$f = 3641, z = 4020, u = 4423, v = 1995$
937I	$2 \cdot 5 \cdot 937$	2	$u = -3576, v = 1024$
9377	$2^5 \cdot 293$	3	$f''' = 1587, f'' = -3844, f' = -1816,$ $f = -2848, u = -3636$
939I	$2 \cdot 3 \cdot 5 \cdot 313$	- 2	$z = 983, u = -1882, v = 3057$
9397	$2^2 \cdot 3^3 \cdot 87$	2	$f = 1852, z'' = 3918, z' = 697, z = -2625, u = -3083$
9403	$2 \cdot 3 \cdot 1567$	3	$z = 3410, u = 729$
9413	$2^3 \cdot 13 \cdot 181$	3	$f = -4658, u = -3083, v = 2843$
9419	$2 \cdot 17 \cdot 277$	2	$u = -4250, v = -637$
942I	$2^2 \cdot 3 \cdot 5 \cdot 157$	2	$f = 2301, z = -2379, u = -4685, v = -4229$
943I	$2 \cdot 5 \cdot 23 \cdot 41$	- 3	$u = -1908, v = 3849, w = 4124$
9433	$2^3 \cdot 3^2 \cdot 131$	5	$f' = -4086, f = -1014, z' = 1075,$ $z = 926, u = 1891$
9437	$2^3 \cdot 7 \cdot 337$	2	$f = -830, u = -1756, v = -9$
9439	$2 \cdot 3 \cdot 11^2 \cdot 13$	- 7	$z = 733, u' = -1590, u = 2641, v = -4425$
946I	$2^2 \cdot 5 \cdot 11 \cdot 43$	3	$f = 1510, u = -4233, v = -4401, w = -1573$
9463	$2 \cdot 3 \cdot 19 \cdot 83$	3	$z = 607, u = 682, v = -731$
9467	$2 \cdot 4733$	2	$u = 4$
9473	$2^8 \cdot 37$	3	$f^{VI} = 1285, f^V = 2923, f^{IV} = -717, f^{III} = 2547,$ $f^{II} = -1796, f^I = -4677, f = 1172, u = 1300$
9479	$2 \cdot 7 \cdot 677$	- 2	$u = 3415, v = -2574$
949I	$2 \cdot 5 \cdot 13 \cdot 73$	2	$u = 3089, v = 3155, w = -1726$
9497	$2^3 \cdot 1187$	3	$f' = 2799, f = -624, u = -2936$
951I	$2 \cdot 3 \cdot 5 \cdot 317$	3	$z = 3491, u = -2407, v = 2583$
952I	$2^4 \cdot 5 \cdot 7 \cdot 17$	3	$f'' = -2812, f' = -4607, f = 2140,$ $u = -1349, v = 1653, w = -2189$
9533	$2^3 \cdot 2383$	2	$f = -1977, u = 16$
9539	$2 \cdot 19 \cdot 251$	2	$u = -2260, v = 3442$
9547	$2 \cdot 3 \cdot 37 \cdot 43$	2	$z = 3268, u = 3057, v = 1468$
955I	$2 \cdot 5^2 \cdot 191$	- 2	$u' = -305, u = 4024, v = -3367$
9587	$2 \cdot 4793$	2	$u = 4$
960I	$2^7 \cdot 3 \cdot 5^2$	13	$f^V = 988, f^{IV} = -3158, f^{III} = -2475,$ $f^{II} = 187, f^I = -3435, f = -404,$ $z = -4207, u' = 937, u = -4588$

Table des racines primitives pour les nombres premiers entre 5000 et 10000. 251

p	$p-1$	g	Caractères
9613	$2^3 \cdot 3^3 \cdot 89$	2	$f = -3237, z'' = -2387, z' = 3540,$ $z = 3086, u = -3739$
9619	$2 \cdot 3 \cdot 7 \cdot 229$	2	$z = -4427, u = 4289, v = -3995$
9623	$2 \cdot 17 \cdot 283$	- 3	$u = -2067, v = -3189$
9629	$2^2 \cdot 29 \cdot 83$	2	$f = -3832, u = 581, v = -4110$
9631	$2 \cdot 3^2 \cdot 5 \cdot 107$	3	$z' = -1482, z = -1622, u = 3947, v = -38$
9643	$2 \cdot 3 \cdot 1607$	2	$z = 4596, u = 64$
9649	$2^4 \cdot 3^2 \cdot 67$	7	$f'' = 3462, f' = 1386, f = 845,$ $z' = -1246, z = -3416, u = 3042$
9661	$2^2 \cdot 3 \cdot 5 \cdot 7 \cdot 23$	2	$f = 139, z = 1653, u = -4360, v = -1387, w = 4420$
9677	$2^2 \cdot 41 \cdot 59$	2	$f = -1338, u = 4319, v = -758$
9679	$2 \cdot 3 \cdot 1613$	- 2	$z = -2914, u = 64$
9689	$2^3 \cdot 7 \cdot 173$	3	$f' = -3007, f = 2212, u = 2347, v = 100$
9697	$2^5 \cdot 3 \cdot 101$	10	$f''' = 2741, f'' = -2094, f' = 1792,$ $f = 1557, z = -1992, u = 2543$
9719	$2 \cdot 43 \cdot 113$	- 3	$u = -1662, v = 169$
9721	$2^3 \cdot 3^5 \cdot 5$	7	$f' = -3997, f = 4406, z^{IV} = -949, z''' = -29,$ $z'' = 4774, z' = 447, z = -1925, u = 4264$
9733	$2^2 \cdot 3 \cdot 811$	2	$f = 2709, z = -1551, u = 4096$
9739	$2 \cdot 3^2 \cdot 541$	3	$z' = 2761, z = -2769, u = 3069$
9743	$2 \cdot 4871$	- 2	$u = 4$
9749	$2^2 \cdot 2437$	2	$f = -356, u = 16$
9767	$2 \cdot 19 \cdot 257$	- 2	$u = 2534, v = 599$
9769	$2^3 \cdot 3 \cdot 11 \cdot 37$	13	$f' = 1673, f = -4774, z = -262,$ $u = -1966, v = -729$
9781	$2^2 \cdot 3 \cdot 5 \cdot 163$	6	$f = -1195, z = 4307, u = 2779, v = 3057$
9787	$2 \cdot 3 \cdot 7 \cdot 233$	3	$z = -3032, u = -2829, v = 3587$
9791	$2 \cdot 5 \cdot 11 \cdot 89$	- 2	$u = 3607, v = 4227, w = 3124$
9803	$2 \cdot 13 \cdot 377$	2	$u = 2774, v = -2474$
9811	$2 \cdot 3^2 \cdot 5 \cdot 109$	3	$z' = 1536, z = -603, u = -2772, v = -4155$
9817	$2^3 \cdot 3 \cdot 409$	5	$f' = -1837, f = -2479, z = -956, u = -22$
9829	$2^2 \cdot 3^3 \cdot 7 \cdot 13$	10	$f = -1304, z'' = 74, z' = 2235,$ $z = -749, u = 3981, v = 3654$
9833	$2^3 \cdot 1229$	3	$f' = -2008, f = 534, u = -3272$
9839	$2 \cdot 4919$	- 2	$u = 4$
9851	$2 \cdot 5^2 \cdot 197$	2	$u' = 169, u = 2234, v = -4351$

p	$p-1$	g	Caractères
9857	$2^7 \cdot 7 \cdot 11$	5	$f^v = 4745, f^{iv} = 1637, f^{iii} = -1335,$ $f'' = -1892, f' = 1573, f = 222,$ $u = 2595, v = -2200$
9859	$2 \cdot 3 \cdot 31 \cdot 53$	2	$z = -4751, u = -1250, v = 4192$
9871	$2 \cdot 3 \cdot 5 \cdot 7 \cdot 47$	- 2	$z = 651, u = -3743, v = 1809, w = 760$
9883	$2 \cdot 3^4 \cdot 61$	2	$z''' = -180, z'' = -1030, z' = -3222,$ $z = 2536, u = 4623$
9887	$2 \cdot 4943$	- 2	$u = 4$
9901	$2^3 \cdot 3^3 \cdot 5^2 \cdot 11$	2	$f = -1000, z' = -4651, z = 99,$ $u' = 4692, u = -2290, v = -443$
9907	$2 \cdot 3 \cdot 13 \cdot 127$	2	$z = 3335, u = 4856, v = 3297$
9923	$2 \cdot 11^2 \cdot 41$	2	$u' = -1155, u = 1807, v = -1556$
9929	$2^3 \cdot 17 \cdot 73$	3	$f' = 1273, f = 2102, u = -3642, v = -1086$
9931	$2 \cdot 3 \cdot 5 \cdot 331$	- 5	$z = 4231, u = -1657, v = -4451$
9941	$2^3 \cdot 5 \cdot 7 \cdot 71$	2	$f = 141, u = -3851, v = 116, w = -1792$
9949	$2^2 \cdot 3 \cdot 829$	2	$f = 2543, z = 3633, u = 4096$
9967	$2 \cdot 3 \cdot 11 \cdot 151$	- 2	$z = -458, u = -2286, v = -4640$
9973	$2^2 \cdot 3^2 \cdot 277$	11	$f = -2798, z' = 1783, z = 1569, u = -3536$