Arctan Formula Bucket

by Jörg Arndt

Notation: $m[x]$ denotes m arctan $\frac{1}{x}$

$$\frac{\pi}{4} = +24\,[12943] - 12\,[682] + 7\,[239] + 44\,[57] \tag{1}$$
$\{5, 13, 61\}$

$$-\frac{\pi}{4} = +115\,[18543] - 237\,[2943] + 301\,[993] - 186\,[882] - 142\,[829] - 198\,[378] - 29\,[268] \tag{2}$$
$\{5, 13, 17, 29, 37, 41\}$

$$-\frac{\pi}{4} = +144\,[18543] - 324\,[2943] + 388\,[993] - 244\,[882] - 200\,[829] - 256\,[378] + 29\,[239] \tag{3}$$
$\{5, 13, 17, 29, 37, 41\}$

$$-\frac{\pi}{4} = +51\,[390112] + 122\,[12943] + 58\,[5357] - 241\,[3141] - 241\,[798] - 32\,[682] - 176\,[463] \tag{4}$$
$\{5, 13, 17, 61, 97, 101\}$

$$-\frac{\pi}{4} = +51\,[390112] + 122\,[12943] + 58\,[5357] - 32\,[682] + 65\,[463] - 241\,[268] \tag{5}$$
$\{5, 13, 17, 61, 97\}$

$$-\frac{\pi}{4} = +32\,[6826318] - 32\,[6507] + 12\,[3957] - 44\,[905] - 68\,[268] - 115\,[239] \tag{6}$$
$\{5, 13, 17, 109, 457\}$

$$-\frac{\pi}{4} = +56\,[173932] + 32\,[1068] - 100\,[515] - 39\,[239] - 88\,[192] \tag{7}$$
$\{5, 13, 73, 101\}$

$$-\frac{\pi}{4} = +88\,[6826318] - 24\,[12943] - 88\,[6050] + 56\,[682] - 44\,[515] - 183\,[239] \tag{8}$$
$\{5, 13, 61, 101, 457\}$

$$-\frac{\pi}{4} = +56\,[3014557] + 44\,[6118] + 276\,[2943] - 144\,[1303] - 200\,[818] - 127\,[239] \tag{9}$$
$\{5, 13, 41, 53, 101\}$

$$\frac{\pi}{4} = +44\,[18543] - 12\,[882] + 56\,[327] + 64\,[307] + 68\,[268] + 39\,[239] \tag{10}$$
$\{5, 13, 17, 29, 37\}$

$$\frac{\pi}{4} = +39\,[44179] + 51\,[34208] + 95\,[1143] + 32\,[447] + 115\,[307] + 68\,[268] \tag{11}$$
$\{5, 13, 17, 29, 53\}$

$$\frac{\pi}{4} = +4\,[39307] - 2\,[23382] - 4\,[9043] + 4\,[307] - [239] + 14\,[18] \tag{12}$$
$\{5, 13, 29, 97, 1297\}$

$$\frac{\pi}{4} = +12\,[4443] + 24\,[2582] + 24\,[1068] - 5\,[239] + 44\,[57] \tag{13}$$
$\{5, 13, 73, 281, 677\}$

$$-\frac{\pi}{4} = +88\,[6826318] - 24\,[12943] - 88\,[6050] + 56\,[682] - 44\,[515] - 183\,[239] \tag{14}$$
$\{5, 13, 61, 101, 457, 1201\}$

$$-\frac{\pi}{4} = +44\,[500150] - 88\,[28322] + 71\,[12943] + 44\,[2943] - 139\,[1068] - 171\,[682] - 227\,[538] \tag{15}$$
$\{5, 13, 41, 61, 73, 137\}$

$$-\frac{\pi}{4} = +44\,[500150] - 88\,[28322] - 156\,[12943] + 44\,[2943] + 88\,[1068] + 56\,[682] - 227\,[239] \tag{16}$$
$\{5, 13, 41, 61, 73, 137\}$

$$-4.\,\pi = +23\,[500150] - 46\,[28322] + [12943] + 23\,[2943] + 46\,[1068] - 12\,[682] - 227\,[18] \tag{17}$$
$\{5, 13, 41, 61, 73, 137\}$

$$-\frac{\pi}{4} = +44\,[470743] - 12\,[110443] - 32\,[1152] - 56\,[693] - 144\,[437] - 83\,[239] \tag{18}$$
$\{5, 13, 17, 113, 1201\}$

$$-\frac{\pi}{4} = +68\,[1999509] + 24\,[58911] + 12\,[12238] + 4\,[307] - 95\,[239] - 68\,[169] \tag{19}$$
$\{5, 13, 29, 421, 14281\}$

$$\frac{\pi}{4} = +44\,[4662] - 32\,[4443] - 20\,[1568] - 64\,[1458] + 132\,[268] + 83\,[239] \tag{20}$$
$\{5, 13, 17, 89, 281\}$

$$-\frac{\pi}{4} = +183\,[1493208] + 366\,[83270] - 132\,[32807] + 349\,[12943] + 139\,[4662] - 827\,[1568] - 215\,[682] \tag{21}$$
$\{5, 13, 17, 61, 89, 233\}$

$$-\frac{\pi}{4} = +51\,[32807] + 166\,[12943] - 44\,[4662] - 95\,[1568] - 32\,[682] - 183\,[268] \tag{22}$$
$\{5, 13, 17, 61, 89\}$

$$\frac{\pi}{4} = +32\,[1493208] + 64\,[83270] + 132\,[32807] + 296\,[12943] + 76\,[4662] - 248\,[1568] + 215\,[239] \tag{23}$$
$\{5, 13, 17, 61, 89, 233\}$

$$\frac{\pi}{4} = +132\,[32807] + 200\,[12943] + 44\,[4662] - 88\,[1568] + 32\,[682] + 183\,[239] \tag{24}$$
$\{5, 13, 17, 61, 89\}$

$$-\frac{\pi}{4} = +12\,[12238] - 7\,[239] + 4\,[57] - 24\,[29] \tag{25}$$
$\{5, 13, 421, 1597\}$

$$\frac{\pi}{4} = +8\,[11653127] + 4\,[2413658] - 11\,[1393] - 26\,[577] - 4\,[307] + 6\,[7] \tag{26}$$
$\{5, 13, 29, 197, 14281\}$

$$-1.25\,\pi = +8\,[11653127] + 4\,[2413658] - 11\,[1393] - 26\,[577] - 4\,[307] - 12\,[3] \tag{27}$$
$\{5, 13, 29, 197, 14281\}$

$$-0.75\,\pi = +4\,[58911] + 36\,[12238] + 12\,[307] - 13\,[239] - 68\,[29] \tag{28}$$
$\{5, 13, 29, 421\}$

$$-\frac{\pi}{4} = +32\,[534568] + 64\,[6898] - 12\,[4662] + 52\,[1568] - 164\,[268] - 51\,[239] \tag{29}$$
$\{5, 13, 17, 89, 149\}$

$$\frac{\pi}{4} = +139\,[44179] + 51\,[34208] + 68\,[12943] + 132\,[2673] + 95\,[1143] + 32\,[682] + 183\,[307] \tag{30}$$
$\{5, 13, 17, 29, 53, 61\}$

$$-\frac{\pi}{4} = +44\,[44179] + 132\,[34208] - 68\,[12943] - 132\,[2673] + 88\,[1143] - 32\,[682] - 183\,[239] \tag{31}$$
$\{5, 13, 17, 29, 53, 61\}$

$$\frac{\pi}{4} = +17\,[12943] + 88\,[3039] + 88\,[2673] + 44\,[2309] + 51\,[1068] + 215\,[682] + 183\,[538] \tag{32}$$
$\{5, 13, 17, 53, 73, 61\}$

$$\frac{\pi}{4} = +12\,[1068] - 12\,[557] + 12\,[268] - 5\,[239] + 44\,[57] \tag{33}$$
$\{5, 13, 17, 73\}$

$$\frac{\pi}{4} = +17\,[12943] + 7\,[1068] - 5\,[682] + 7\,[538] + 44\,[57] \tag{34}$$
$\{5, 13, 17, 61, 73\}$

$$\frac{\pi}{4} = +183\,[534568] - 51\,[32807] + 227\,[24331] - 532\,[12943] + 366\,[6898] + 227\,[5767] + 644\,[1568] + 215\,[682] \tag{35}$$
$\{5, 13, 17, 61, 89, 101, 149\}$

$$\frac{\pi}{4} = +183\,[534568] - 51\,[32807] - 532\,[12943] + 366\,[6898] + 227\,[4662] + 644\,[1568] + 215\,[682] \tag{36}$$
$\{5, 13, 17, 61, 89, 149\}$

$$-\frac{\pi}{4} = +32\,[534568] + 51\,[32807] - 113\,[12943] + 64\,[6898] - 12\,[4662] + 216\,[1568] - 215\,[233] \tag{37}$$
$\{5, 13, 17, 61, 89, 149\}$

$$\frac{\pi}{4} = +12\,[110443] - 5\,[239] + 32\,[57] + 12\,[49] \tag{38}$$
$\{5, 13, 89, 149, 1201\}$

$$-\frac{\pi}{4} = +5\,[534568] - 12\,[110443] + 10\,[193] - 17\,[57] - 12\,[49] - 10\,[34] \tag{39}$$
$\{5, 13, 89, 149, 1201\}$

$$-\frac{\pi}{4} = +24\,[58911] + 12\,[12238] + 4\,[307] - 27\,[239] - 68\,[99] \tag{40}$$
$\{5, 13, 29, 269, 421\}$

$$-\frac{\pi}{4} = +12\,[12238] - 7\,[239] + 4\,[187] + 4\,[82] - 24\,[29] \tag{41}$$
$$\{5, 13, 269, 421\}$$
$$\frac{\pi}{4} = +8\,[307] + 3\,[239] + 8\,[99] + 12\,[18] \tag{42}$$
$$\{5, 13, 29\}$$
$$-\frac{\pi}{4} = +4\,[157] - 7\,[41] - 2\,[38] - 10\,[17] \tag{43}$$
$$\{5, 17, 29\}$$
$$-\frac{\pi}{4} = +8\,[2943] - 3\,[239] - 8\,[73] - 12\,[18] \tag{44}$$
$$\{5, 13, 41\}$$
$$-\frac{\pi}{4} = +4\,[515] + [239] - 8\,[10] \tag{45}$$
$$\{5, 13, 101\}$$
$$\frac{\pi}{4} = +4\,[1985] + 4\,[421] + 3\,[239] + 16\,[21] \tag{46}$$
$$\{13, 17, 401\}$$
$$\frac{\pi}{4} = +2\,[123] + 2\,[55] + 4\,[13] + 3\,[7] \tag{47}$$
$$\{5, 17, 89\}$$
$$\frac{\pi}{4} = +12\,[322] + 7\,[239] + 12\,[144] - 4\,[57] + 24\,[34] \tag{48}$$
$$\{5, 13, 89, 233\}$$
$$-\frac{\pi}{4} = +12\,[19703] - 24\,[568] - 20\,[307] - 27\,[239] - 56\,[99] \tag{49}$$
$$\{5, 13, 29, 89\}$$
$$-\frac{\pi}{4} = +2\,[3940598] - 4\,[199] - 4\,[123] - 4\,[13] - 3\,[7] \tag{50}$$
$$\{5, 17, 89, 19801\}$$
$$-\frac{\pi}{4} = +12\,[39307] - 12\,[4193] - 32\,[307] - 27\,[239] - 56\,[99] \tag{51}$$
$$\{5, 13, 29, 97\}$$
$$\frac{\pi}{4} = +88\,[39307] + 68\,[12943] - 44\,[5357] - 56\,[682] + 88\,[307] + 139\,[239] \tag{52}$$
$$\{5, 13, 29, 61, 97\}$$
$$\frac{\pi}{4} = +132\,[32807] + 44\,[19703] + 112\,[12943] + 76\,[682] + 44\,[568] + 139\,[239] \tag{53}$$
$$\{5, 13, 29, 61, 89\}$$
$$\frac{\pi}{4} = +200\,[12943] - 132\,[9466] + 220\,[2917] + 176\,[882] + 76\,[682] + 95\,[239] \tag{54}$$
$$\{5, 13, 29, 37, 61\}$$
$$\frac{\pi}{4} = +139\,[157318] + 227\,[32807] - 171\,[17923] + 156\,[12943] + 259\,[5507] + 44\,[5357] + 537\,[746] \tag{55}$$
$$\{5, 13, 37, 61, 89, 97\}$$
$$\frac{\pi}{4} = +139\,[157318] + 227\,[32807] + 366\,[17923] + 156\,[12943] - 278\,[5507] + 44\,[5357] + 537\,[682] \tag{56}$$
$$\{5, 13, 37, 61, 89, 97\}$$
$$-\frac{\pi}{4} = +40\,[157318] - 48\,[32807] - 8\,[17923] - 156\,[12943] - 80\,[5507] - 44\,[5357] - 179\,[239] \tag{57}$$
$$\{5, 13, 37, 61, 89, 97\}$$
$$\frac{\pi}{4} = +88\,[32807] + 88\,[17923] + 156\,[12943] + 44\,[5357] + 120\,[682] + 139\,[239] \tag{58}$$
$$\{5, 13, 61, 89, 97\}$$
$$-\frac{\pi}{4} = +51\,[32807] - 88\,[17923] - 17\,[12943] - 44\,[5357] - 120\,[682] - 139\,[233] \tag{59}$$
$$\{5, 13, 61, 89, 97\}$$
$$-0.75\,\pi = +14\,[32807] + 14\,[17923] - 51\,[12943] + 7\,[5357] + 57\,[682] - 139\,[57] \tag{60}$$
$$\{5, 13, 61, 89, 97\}$$
$$4.\,\pi = +18\,[32807] + 18\,[17923] - 6\,[12943] + 9\,[5357] - 26\,[682] + 139\,[11] \tag{61}$$
$$\{5, 13, 61, 89, 97\}$$

$$1.\,\pi = +19\,[157318] + 13\,[32807] + 32\,[17923] + 87\,[12943] - 38\,[5507] - 3\,[5357] + 179\,[57] \quad (62)$$
$\{5, 13, 37, 61, 89, 97\}$

$$15.5\,\pi = +26\,[157318] + 112\,[32807] + 138\,[17923] + 6\,[12943] - 52\,[5507] + 43\,[5357] + 537\,[11] \quad (63)$$
$\{5, 13, 37, 61, 89, 97\}$

$$\frac{\pi}{4} = +200\,[12943] - 132\,[9466] + 220\,[2917] + 176\,[882] + 76\,[682] + 95\,[239] \quad (64)$$
$\{5, 13, 29, 37, 61\}$

$$\frac{\pi}{4} = +183\,[157318] + 315\,[32807] + 200\,[12943] + 44\,[4662] - 88\,[1568] + 366\,[746] + 215\,[682] \quad (65)$$
$\{5, 13, 17, 37, 61, 89\}$

$$\frac{\pi}{4} = +11\,[157318] + 14\,[32807] + 28\,[12943] + [4662] - 2\,[1568] + 22\,[746] + 43\,[57] \quad (66)$$
$\{5, 13, 17, 37, 61, 89\}$

$$\frac{\pi}{4} = +112\,[58911] - 68\,[39307] + 56\,[12238] + 68\,[4193] + 200\,[307] + 27\,[239] \quad (67)$$
$\{5, 13, 29, 97, 421\}$

$$-\frac{\pi}{4} = +32\,[3323] - 68\,[3141] - 12\,[616] - 64\,[307] - 112\,[293] - 39\,[239] \quad (68)$$
$\{5, 13, 17, 29, 101\}$

$$-\frac{\pi}{4} = +56\,[3014557] + 44\,[6118] + 276\,[2943] - 144\,[1303] - 200\,[818] - 127\,[239] \quad (69)$$
$\{5, 13, 41, 53, 101\}$

$$-\frac{\pi}{4} = +183\,[3014557] + 254\,[12943] + 44\,[6118] + 403\,[2943] - 271\,[1303] - 454\,[818] - 127\,[682] \quad (70)$$
$\{5, 13, 41, 53, 61, 101\}$

$$-3.75\,\pi = +78\,[3014557] + 127\,[12943] + 25\,[6118] + 203\,[2943] - 128\,[1303] - 206\,[818] - 127\,[11] \quad (71)$$
$\{5, 13, 41, 53, 61, 101\}$

$$-\frac{\pi}{4} = +13\,[485298] + 8\,[44179] + 2\,[34208] - 10\,[1143] - 24\,[931] - 11\,[882] - 17\,[23] \quad (72)$$
$\{5, 13, 17, 29, 37, 53\}$

$$\frac{\pi}{4} = +8\,[307] + 3\,[239] + 8\,[99] + 12\,[18] \quad (73)$$
$\{5, 13, 29, 5741, 33461\}$

$$\frac{\pi}{4} = +88\,[39307] + 68\,[12943] - 44\,[5357] - 56\,[682] + 88\,[307] + 139\,[239] \quad (74)$$
$\{5, 13, 29, 61, 97\}$

$$-\frac{\pi}{4} = +71\,[12943] - 44\,[5357] - 51\,[2943] + 88\,[2059] + 56\,[682] - 227\,[255] \quad (75)$$
$\{5, 13, 41, 61, 97\}$

$$0.5\,\pi = +85\,[12943] + 88\,[5357] + 102\,[2943] + 51\,[2059] + 115\,[682] + 227\,[172] \quad (76)$$
$\{5, 13, 41, 61, 97\}$

$$-\frac{\pi}{4} = +71\,[12943] + 227\,[6118] + 183\,[5357] - 51\,[2943] - 366\,[2059] + 56\,[682] - 454\,[606] \quad (77)$$
$\{5, 13, 41, 53, 61, 97\}$

$$33.5\,\pi = +20\,[12943] - 6\,[5357] + 24\,[2943] + 12\,[2059] - 13\,[682] + 227\,[2] \quad (78)$$
$\{5, 13, 41, 53, 61, 97\}$

$$\frac{\pi}{4} = +398\,[390112] - 449\,[32807] - 32\,[17923] - 779\,[12943] + 183\,[5357] + 657\,[4662] + 1074\,[1568] \quad (79)$$
$\{5, 13, 17, 61, 89, 97\}$

$$-\frac{\pi}{4} = +139\,[390112] - 88\,[32807] - 505\,[17923] - 295\,[12943] - 183\,[5357] + 417\,[4662] - 537\,[682] \quad (80)$$
$\{5, 13, 17, 61, 89, 97\}$

$$-1.25\,\pi = +158\,[390112] + 97\,[32807] + 160\,[17923] + 673\,[12943] + 159\,[5357] - 63\,[4662] - 1074\,[268] \quad (81)$$
$\{5, 13, 17, 61, 89, 97\}$

$$\frac{\pi}{4} = +40\,[390112] + 88\,[32807] - 32\,[17923] + 116\,[12943] + 4\,[5357] + 120\,[4662] + 179\,[239] \quad (82)$$
$\{5, 13, 17, 61, 89, 97\}$

$$\frac{\pi}{4} = +40\,[390112] - 91\,[32807] - 32\,[17923] - 63\,[12943] + 4\,[5357] + 120\,[4662] + 179\,[233] \quad (83)$$
$\{5, 13, 17, 61, 89, 97\}$

$$-\frac{\pi}{4} = +51\,[390112] + 122\,[12943] + 58\,[5357] - 32\,[682] + 65\,[463] - 241\,[268] \tag{84}$$
$$\{5, 13, 17, 61, 97\}$$

$$-\frac{\pi}{4} = +51\,[32807] + 166\,[12943] - 44\,[4662] - 95\,[1568] - 32\,[682] - 183\,[268] \tag{85}$$
$$\{5, 13, 17, 61, 89\}$$

$$\frac{\pi}{4} = +88\,[32807] + 88\,[17923] + 156\,[12943] + 44\,[5357] + 120\,[682] + 139\,[239] \tag{86}$$
$$\{5, 13, 61, 89, 97\}$$

$$\frac{\pi}{4} = +132\,[32807] - 234\,[19703] + 112\,[12943] - 139\,[6107] + 278\,[1636] + 215\,[682] + 183\,[568] \tag{87}$$
$$\{5, 13, 17, 29, 61, 89\}$$

$$-\frac{\pi}{4} = +12\,[39307] - 12\,[4193] - 32\,[307] - 27\,[239] - 56\,[99] \tag{88}$$
$$\{5, 13, 29, 97\}$$

$$-\frac{\pi}{4} = +83\,[390112] + 122\,[39307] - 305\,[4246] - 151\,[4193] + 193\,[463] - 337\,[307] \tag{89}$$
$$\{5, 13, 17, 29, 97\}$$

$$-\frac{\pi}{4} = +12\,[19703] - 24\,[568] - 20\,[307] - 27\,[239] - 56\,[99] \tag{90}$$
$$\{5, 13, 29, 89\}$$

$$\frac{\pi}{4} = +24\,[3323] + 12\,[515] + 8\,[307] + 39\,[239] + 56\,[99] \tag{91}$$
$$\{5, 13, 29, 101\}$$

$$-\frac{\pi}{4} = +24\,[882] - 20\,[307] - 39\,[239] + 12\,[117] - 68\,[99] \tag{92}$$
$$\{5, 13, 29, 37\}$$

$$-0.75\,\pi = +4\,[39307] + 3\,[6962] + 5\,[5507] + 8\,[4193] + [2436] + 4\,[1433] - 19\,[8] \tag{93}$$
$$\{5, 13, 29, 37, 73, 97\}$$

$$\frac{\pi}{4} = +51\,[114483] + 68\,[12943] - 32\,[12238] + 88\,[3957] + 115\,[1292] + 44\,[905] + 183\,[294] \tag{94}$$
$$\{5, 13, 17, 61, 109, 421\}$$

$$\frac{\pi}{4} = +183\,[534568] - 51\,[32807] - 532\,[12943] + 366\,[6898] + 227\,[4662] + 644\,[1568] + 215\,[682] \tag{95}$$
$$\{5, 13, 17, 61, 89, 149\}$$

$$\frac{\pi}{4} = +366\,[1049433] + 132\,[32807] - 166\,[12943] - 322\,[4662] + 644\,[1568] - 183\,[1393] + 398\,[682] \tag{96}$$
$$\{5, 13, 17, 61, 89, 197\}$$

$$-\frac{\pi}{4} = +68\,[11653127] + 68\,[1999509] + 24\,[58911] + 12\,[12238] - 163\,[1393] - 394\,[577] + 4\,[307] \tag{97}$$
$$\{5, 13, 29, 197, 421, 14281\}$$

$$\frac{\pi}{4} = +88\,[32807] + 88\,[17923] + 156\,[12943] + 44\,[5357] + 120\,[682] + 139\,[239] \tag{98}$$
$$\{5, 13, 61, 89, 97\}$$

$$-\frac{\pi}{4} = +51\,[32807] - 88\,[17923] - 17\,[12943] - 44\,[5357] - 120\,[682] - 139\,[233] \tag{99}$$
$$\{5, 13, 61, 89, 97\}$$

$$-0.75\,\pi = +14\,[32807] + 14\,[17923] - 51\,[12943] + 7\,[5357] + 57\,[682] - 139\,[57] \tag{100}$$
$$\{5, 13, 61, 89, 97\}$$

$$-\frac{\pi}{4} = +278\,[1049433] + 190\,[32807] - 644\,[17923] - 156\,[12943] - 322\,[5357] - 139\,[1393] - 398\,[682] \tag{101}$$
$$\{5, 13, 61, 89, 97, 197\}$$

$$\frac{\pi}{4} = +120\,[1049433] + 208\,[32807] - 152\,[17923] + 156\,[12943] - 76\,[5357] + 139\,[1393] + 398\,[577] \tag{102}$$
$$\{5, 13, 61, 89, 97, 197\}$$

$$\frac{\pi}{4} = +120\,[1049433] + 9\,[32807] - 152\,[17923] - 43\,[12943] - 76\,[5357] - 60\,[1393] + 199\,[233] \tag{103}$$
$$\{5, 13, 61, 89, 97, 197\}$$

$$-\frac{\pi}{4} = +56\,[173932] - 39\,[2436] + 32\,[1068] - 88\,[697] - 100\,[515] - 127\,[265] \tag{104}$$
$$\{5, 13, 37, 73, 101\}$$

$$\frac{\pi}{4} = +24\,[268] + 7\,[239] + 20\,[57] + 12\,[38] \tag{105}$$
$$\{5, 13, 17\}$$
$$\frac{\pi}{4} = -5\,[239] + 8\,[57] + 12\,[18] \tag{106}$$
$$\{5, 13\}$$
$$\frac{\pi}{4} = +68\,[12943] + 44\,[5357] - 56\,[682] + 88\,[560] + 51\,[239] + 88\,[182] \tag{107}$$
$$\{5, 13, 53, 61, 97\}$$
$$\frac{\pi}{4} = +398\,[390112] - 449\,[32807] - 32\,[17923] - 779\,[12943] + 183\,[5357] + 657\,[4662] + 1074\,[1568] \tag{108}$$
$$\{5, 13, 17, 61, 89, 97\}$$
$$\frac{\pi}{4} = -24\,[58911] - 12\,[12238] - 4\,[307] + 27\,[239] + 68\,[99] \tag{109}$$
$$\{5, 13, 29, 421\}$$
$$0.5\,\pi = -241\,[2827300] + 139\,[390112] + 238\,[12943] + 366\,[5357] + 305\,[2207] + 64\,[987] + 593\,[463] \tag{110}$$
$$\{5, 13, 17, 61, 97, 1597\}$$
$$\frac{\pi}{4} = +68\,[2943] + 68\,[993] + 44\,[882] + 88\,[307] - 29\,[239] + 56\,[117] \tag{111}$$
$$\{5, 13, 29, 37, 41\}$$
$$\frac{\pi}{4} = -24\,[882] + 20\,[307] + 39\,[239] - 12\,[117] + 68\,[99] \tag{112}$$
$$\{5, 13, 29, 37\}$$
$$\frac{\pi}{4} = -20\,[50770] + 15\,[239] + 20\,[207] + 32\,[117] + 24\,[68] \tag{113}$$
$$\{5, 13, 37, 857\}$$
$$\frac{\pi}{4} = -6\,[339877] + 12\,[1755] + 18\,[443] + 18\,[268] + [239] + 38\,[57] \tag{114}$$
$$\{5, 13, 17, 157, 577\}$$
$$\frac{\pi}{4} = -7\,[8827] + 3\,[2682] + 5\,[38] + 17\,[26] \tag{115}$$
$$\{5, 17, 677\}$$
$$\frac{\pi}{4} = +3\,[11420868] - 3\,[15568] - 3\,[293] - 6\,[58] + 5\,[38] + 10\,[13] \tag{116}$$
$$\{5, 17, 101, 673, 6709\}$$
$$\frac{\pi}{4} = -12\,[93707] + 24\,[12943] - 12\,[687] + 7\,[239] + 44\,[57] \tag{117}$$
$$\{5, 13, 61, 109, 433\}$$
$$\frac{\pi}{4} = -8\,[4030] - 4\,[515] - [239] + 16\,[20] \tag{118}$$
$$\{5, 13, 101, 401\}$$
$$\frac{\pi}{4} = -24\,[119257] + 44\,[14942] + 44\,[2621] - 48\,[707] - 5\,[239] + 100\,[117] \tag{119}$$
$$\{5, 13, 37, 193, 769\}$$
$$0.5\,\pi = -34\,[27493] - 17\,[3458] - 3\,[1068] - 14\,[557] + 61\,[38] \tag{120}$$
$$\{5, 17, 73, 181\}$$
$$\frac{\pi}{4} = +44\,[27493] + 83\,[3458] - 32\,[1068] + 115\,[557] + 122\,[343] + 61\,[268] \tag{121}$$
$$\{5, 13, 17, 73, 181\}$$
$$\frac{\pi}{4} = -8\,[16480443] - 16\,[11653127] - 8\,[2827807] + 19\,[1393] + 46\,[577] + 8\,[307] + 12\,[18] \tag{122}$$
$$\{5, 13, 29, 197, 457, 14281\}$$
$$\frac{\pi}{4} = -6\,[390112] + 6\,[463] + 42\,[268] + 13\,[239] + 32\,[57] \tag{123}$$
$$\{5, 13, 17, 97\}$$
$$\frac{\pi}{4} = +266\,[23747457] - 561\,[2733307] + 632\,[390112] + 593\,[6962] - 417\,[5507] - 1635\,[5283] + 1308\,[2436] + 808\,[1477] \tag{124}$$
$$\{5, 13, 17, 37, 73, 97, 173\}$$
$$\frac{\pi}{4} = -12\,[83387] + 44\,[58911] + 56\,[14343] + 64\,[307] + 27\,[239] + 68\,[148] \tag{125}$$
$$\{5, 13, 29, 421, 337, 641\}$$

$$\frac{\pi}{4} = +200\,[12943] - 132\,[9466] + 220\,[2917] + 95\,[1393] + 176\,[882] + 76\,[682] + 190\,[577] \tag{126}$$
$$\{5, 13, 29, 37, 61, 197\}$$
$$\frac{\pi}{4} = +10\,[12943] + 7\,[4443] + 14\,[2582] + 14\,[1068] - 5\,[682] + 44\,[57] \tag{127}$$
$$\{5, 13, 61, 73, 281\}$$
$$\frac{\pi}{4} = +12\,[515] + 7\,[239] - 24\,[212] + 8\,[57] + 24\,[34] \tag{128}$$
$$\{5, 13, 89, 101\}$$
$$\frac{\pi}{4} = +68\,[12943] + 44\,[5357] + 32\,[682] + 51\,[239] + 88\,[172] \tag{129}$$
$$\{5, 13, 61, 97\}$$
$$\frac{\pi}{4} = -10\,[11018] - 5\,[1393] + 2\,[443] + 22\,[28] \tag{130}$$
$$\{5, 157, 197\}$$
$$\frac{\pi}{4} = +12\,[11018] - 5\,[1393] - 22\,[577] + 24\,[443] + 44\,[57] \tag{131}$$
$$\{5, 13, 157, 197\}$$
$$\frac{\pi}{4} = -10\,[11018] + 17\,[1393] - 20\,[443] + 44\,[183] + 22\,[38] \tag{132}$$
$$\{5, 17, 157, 197\}$$
$$\frac{\pi}{4} = -10\,[11018] - 5\,[1393] + 2\,[443] + 22\,[28] \tag{133}$$
$$\{5, 53, 157, 197\}$$
$$\frac{\pi}{4} = +34\,[11018] + 22\,[6072] + 44\,[5118] + 17\,[1393] + 68\,[443] + 110\,[182] \tag{134}$$
$$\{5, 53, 157, 197, 373\}$$
$$\frac{\pi}{4} = -10\,[10133] - 4\,[157] + 17\,[41] + 2\,[38] + 10\,[29] \tag{135}$$
$$\{5, 17, 29, 421\}$$
$$\frac{\pi}{4} = -10\,[13443] - 10\,[10133] - 10\,[293] - 24\,[157] + 27\,[41] + 12\,[38] \tag{136}$$
$$\{5, 17, 29, 101, 421\}$$
$$\frac{\pi}{4} = +112\,[58911] + 56\,[12238] + 136\,[3323] + 68\,[515] + 64\,[307] + 95\,[239] \tag{137}$$
$$\{5, 13, 29, 101, 421\}$$
$$\frac{\pi}{4} = -11\,[10133] + [818] + [394] - 2\,[182] + 17\,[41] + 11\,[29] \tag{138}$$
$$\{5, 53, 29, 101, 421\}$$
$$\frac{\pi}{4} = +88\,[32807] + 88\,[17923] + 156\,[12943] + 44\,[5357] + 120\,[682] + 139\,[239] \tag{139}$$
$$\{5, 13, 61, 89, 97\}$$
$$\frac{\pi}{4} = +71\,[58911] + 42\,[12238] + 122\,[2943] - 13\,[1713] + 27\,[829] + 41\,[378] + 186\,[307] \tag{140}$$
$$\{5, 13, 17, 29, 41, 421\}$$
$$\frac{\pi}{4} = -44\,[17557] - 115\,[12943] - 359\,[5257] + 7\,[2943] - 44\,[829] + 215\,[682] + 227\,[378] \tag{141}$$
$$\{5, 13, 17, 29, 41, 61\}$$
$$\frac{\pi}{4} = +20\,[307] + 44\,[268] + 27\,[239] + 20\,[157] + 12\,[38] \tag{142}$$
$$\{5, 13, 17, 29\}$$
$$\frac{\pi}{4} = +12\,[443] - 5\,[239] + 20\,[57] + 12\,[28] \tag{143}$$
$$\{5, 13, 157\}$$
$$\frac{\pi}{4} = -10\,[11018] - 5\,[1393] + 2\,[1068] + 2\,[757] + 22\,[28] \tag{144}$$
$$\{5, 73, 157, 197\}$$
$$\frac{\pi}{4} = -24\,[5357] - 36\,[682] - 17\,[239] - 48\,[172] + 68\,[57] \tag{145}$$
$$\{5, 13, 61, 97\}$$
$$\frac{\pi}{4} = +24\,[12943] - 12\,[682] + 7\,[239] + 44\,[57] \tag{146}$$

$\{5, 13, 61, 97\}$

$$\frac{\pi}{4} = -[239] + 4\,[5] \tag{147}$$

$\{13, 601, 877\}$

$$\frac{\pi}{4} = -4\,[1710] - 4\,[580] - [239] + 12\,[15] \tag{148}$$

$\{13, 113, 229\}$

$$\frac{\pi}{4} = +8\,[307] + 3\,[239] + 8\,[99] + 12\,[18] \tag{149}$$

$\{5, 13, 29\}$

$$\frac{\pi}{4} = -12\,[21637] + 48\,[1113] + 36\,[353] + 19\,[239] + 32\,[57] \tag{150}$$

$\{5, 13, 17, 733\}$

$$\frac{\pi}{4} = -12\,[358307] + 39\,[4633] + 32\,[307] + 27\,[252] + 56\,[99] \tag{151}$$

$\{5, 13, 29, 977\}$

$$\frac{\pi}{4} = +24\,[12943] - 12\,[682] + 7\,[239] + 44\,[57] \tag{152}$$

$\{5, 13, 61, 349\}$

$$\frac{\pi}{4} = -12\,[19287] + 24\,[12943] + 32\,[707] + 7\,[239] + 44\,[62] \tag{153}$$

$\{5, 13, 61, 769\}$

$$\frac{\pi}{4} = -12\,[3112] + 24\,[1068] + 12\,[757] - 5\,[239] + 44\,[57] \tag{154}$$

$\{5, 13, 73, 157\}$

$$\frac{\pi}{4} = +7\,[1068] + 27\,[557] + 17\,[378] + 34\,[319] + 22\,[38] \tag{155}$$

$\{5, 17, 41, 73\}$

$$\frac{\pi}{4} = +3\,[17923] - 7\,[5357] + [682] + 3\,[233] + 17\,[22] \tag{156}$$

$\{5, 61, 89, 97\}$

$$\frac{\pi}{4} = -7\,[5357] - 2\,[682] + 3\,[172] + 17\,[22] \tag{157}$$

$\{5, 61, 97, 349\}$

$$\frac{\pi}{4} = +3\,[17923] - 7\,[5357] + [682] + 3\,[233] + 17\,[22] \tag{158}$$

$\{5, 61, 89, 97, 349\}$

$$\frac{\pi}{4} = -7\,[5357] - 2\,[4403] - 2\,[807] + 3\,[172] + 17\,[22] \tag{159}$$

$\{5, 61, 97, 521\}$

$$\frac{\pi}{4} = -10\,[11018] - 5\,[1393] + 2\,[1068] + 2\,[757] + 22\,[28] \tag{160}$$

$\{5, 73, 157, 197\}$

$$\frac{\pi}{4} = -10\,[11018] - 5\,[1393] + 2\,[443] + 22\,[28] \tag{161}$$

$\{5, 61, 157, 197\}$

$$\frac{\pi}{4} = +2\,[12218] + 2\,[1068] + 2\,[807] + 2\,[28] + 5\,[7] \tag{162}$$

$\{5, 73, 157, 521\}$

$$\frac{\pi}{4} = -22\,[87892] - 10\,[11018] - 5\,[1393] + 2\,[443] + 44\,[56] \tag{163}$$

$\{5, 157, 197, 3137\}$

$$\frac{\pi}{4} = -5\,[8119] - 10\,[3363] - 10\,[577] + 12\,[117] + 24\,[68] + 20\,[57] \tag{164}$$

$\{5, 13, 37, 197, 5741, 34261\}$

$$\frac{\pi}{4} = +17\,[12943] - 12\,[8307] - 5\,[743] + 7\,[343] + 44\,[57] \tag{165}$$

$\{5, 13, 61, 181\}$