Tafel der x^6.

1	2	3	4	5	6	7	8	9	10	11	12
2	1	2	3	4	5	6	7	8	9	10	11
£	1.	64,	729,	4096,	18625,	46656,	117649,	262144,	531441,	1000000,	1771561,

12	13	14	15	16	17	18
2985984,	4826809,	7529536	11390625,	16777216,	24137569,	34012224

$$x^6 - ax^5 + bx^4 - cx^3 + dx^2 - ex + f = 0$$

9874655
6912255

$63x - 62 = 1.64$ . . . . . $(3367x - 9372)$

$729, 4096$ . . . . . $(31031x - 139530)$

$18625, 46656$ . . . . . $(144495x - 893816)$

$117649, 262144$ . . . . . $(464559x - 3685590)$

$531441, 1000000,$ . . . . . $(1214423x - 11587092)$

$1771561, 2485984$ . . . . . $(2702427x - 30308642)$

$4826809, 7529536$ . . . . . $(5386591x - 69408240)$

$11390625, 16777216$ . . . . . $(9874655x - 143731566)$

$24137569, 34012224$

5386591
2693295

$$x^6 = (192m^5 - 240m^4 + 160m^3 - 60m^2 + 12m - 1)x - 320m^6 + 480m^5 - 320m^4 + 120m^3 - 24m^2 + 2m$$
$$- 80am^4 + 80am^3 - 40am^2 + 10am - a \quad + 128am^5 - 160am^4 + 80am^3 - 20am^2 + 2am$$
$$+ 32ab - 24ab + 8ab - b \quad - 48b + 48b - 16b + 2bm$$
$$- 12ac + 6ac - ac \quad + 16c - 12c + 2cm$$
$$+ 4ad - ad \quad - 4d + 2dm + f$$
$$- ae$$

$$(192m^5 - 80m^4(3+a) + 8m^3(20+10a+4b) - 4m^2(15+10a+6b+3c) + 2m(6+5a+4b+3c+2d) - (1+a+b+c+d+e)) - 320m^6 + 32m^5(15+4a)$$
$$- 16m^4(20+10a+3b) + 8m^3(15+10a+6b+2c) - 4m^2(6+5a+4b+3c+d) + 2m(1+a+b+c+d) + f$$

$a+b+c+d+e+f = 63$

$31a+15b+7c+3d+e = 3304$

$180a+90b+12c+2d = 24360$

$390a+60b+6c = 61440$

$360a+24b = 63360$

$120a = 23040$

$4a = 768$

$a = 192$, $-b = 240$

$c = 160$, $-d = 60$ $e = 12$ $f = -1$

69120
63360

$-24b = 5760$

$-6b = 1440$

$-b = 240$

69120
57600

74880
75840

$6c = 9960$

14400
61440

$180a = 34560$
$12c \quad 1920$

36480
36360

120

24360
12000

$u_n = (n-1)(n-2)$

$\frac{24}{450}$
160

$\frac{4 \cdot 12 \cdot 16 \cdot 20 \cdot 24}{8 \cdot 4 \cdot 4 \cdot 4}$

$-4 \cdot 0 \cdot 0$
$4 \cdot 0$
-4
192
160
12
364

$30a = 5760$
$a \quad 192$
$7c \quad 1120$

7072
7084

12

$10b = 2400$
$5b = 1200$
$3d = 1180$
3304

7084

240
160
03
363

$\frac{4n(n-1)}{2}$

$12 \quad 16$

$\frac{8n(n-1)(n-2)(n-3)}{3 \cdot 4}$

$\frac{40 \cdot 4 \cdot 3 \cdot 2}{4 \cdot 3}$

$8n(n-1)$

$16 \quad \frac{n(n-1)(n-2)(n-3)(n-4)}{4}$

$\frac{96 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 4}$

$\frac{4n(n-1)}{2}$

$\frac{96 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 5 \cdot 5}$

$\frac{48 \cdot 5 \cdot 4 \cdot 3}{3 \cdot 4}$

$-2x^2+4x-8$

$3n(n-1)$

$4n$

$a+b+c = 4$
$4a+2b+c = 12$
$9a+3b+c = 16$

$3a+b = 8$
$5a+b = 4$

$2a = -4$
$a = -2$

$-6-8 = 6 = +14$ $c = -8$

$-2+14-4 = -c$