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## Title word cross-reference

$(1^3 + q^3)(2^3 + q^3) \cdots (n^3 + q^3)$  [2054].  $(1^\ell + 1)(2^\ell + 1) \cdots (n^\ell + 1)$  [764, 1080].  
 $(1^k + 1)(2^k + 1) \cdots (n^k + 1)$  [569].  $(1^\mu + 1)(2^\mu + 1) \cdots (n^\mu + 1)$  [24]. (2, 3)  
[2480]. (5, 5) [1319].  $(a, b)$  [2310].  $(a^2cx^k - 1)(b^2cy^k - 1) = (abcz^k - 1)^2$  [1335].  
 $(\{a_n\})_{n \geq 1}$  [2488].  $(ax^k - 1)(by^k - 1) = abz^k - 1$  [925].  $(\chi, b)$  [1520].  $(d \geq 4)$   
[1204].  $(\ell_1, \ell_2)$  [1475].  $(k + 1)$  [1838].  $(m^2 - 1)^r + b^2 = c^2$  [1323].  
 $(m^2 - 1)^x + b^y = c^z$  [1323]. (**GSp**<sub>4</sub>, **GL**<sub>2 × GL</sub><sub>1</sub>, **GL**<sub>2</sub>) [2121]. (Sp<sub>4n</sub>(F), Sp<sub>2n</sub>(E))  
[194].  $(n\alpha)$  [328].  $(\phi, \Gamma)$  [2638].  $(\rho, q)$  [1799].  $(S, \{2\})$  [1426, 2509].  $(s, t)$  [1798].  
 $(\varphi, \hat{G})$  [849].  $(\varphi, N)$  [1590].  $(x + 1)^k + (x + 2)^k + \cdots + (2x)^k = y^n$  [2131]. -1  
[2446]. -2 [1493]. -3 [1260]. 0 [1669, 2375]. 1 [55, 214, 285, 381, 536, 788, 901,  
1248, 1281, 1669, 1701, 1891, 2124, 2189, 2438, 2451].  $1 + 2^a + x^b = y^n$  [1043].  
 $\{1, k^2 + 1, k^2 + 2k + 2\}$  [230].  $1/\pi$  [548, 746, 824, 2254]. 10 [842, 2156]. 11 [995].  
13 [975, 1110, 2007]. 14 [1451]. 16 [1614].  $16p^2$  [419].  $1^k + 2^k + \cdots + x^k = y^n$   
[1571].  $1^k + \cdots + x^k = y^n$  [1359, 1627]. 2  
[112, 213, 273, 285, 286, 325, 430, 572, 605, 618, 637, 662, 664, 688, 726, 818, 846,

989, 999, 1011, 1030, 1275, 1319, 1322, 1339, 1381, 1402, 1496, 1499, 1523, 1594,  
 1788, 1789, 1876, 1878, 1900, 1916, 1992, 2001, 2012, 2028, 2051, 2075, 2079, 2088,  
 2139, 2162, 2181, 2189, 2214, 2358, 2369, 2370, 2374, 2438, 2580, 2588, 2611]. 20  
 [2254]. 21 [632]. 23 [2214]. 25 [2214]. 27 [1800].  $2^a$  [1044].  $2^m + nx^2 = y^n$   
 [567].  $2d + 1$  [1204].  $2k$  [2019, 2468].  $2p$  [515]. 3  
 [75, 214, 217, 262, 726, 790, 843, 890, 972, 1011, 1030, 1034, 1192, 1242, 1521, 1590,  
 1778, 1889, 1956, 2189, 2200, 2309, 2438, 2558, 2582].  $3/2$  [768, 994, 1471]. 34  
 [1260]. 36 [381].  $3^n$  [1436].  $3^r \cdot 2$  [1978].  $3k$  [2468].  $3p^{n+1}$  [653].  $3x + 1$  [1226]. 4  
 [262, 381, 1088]. 5 [973, 1207, 1402, 1788, 2230, 2518]. 6 [1198, 2156, 2189, 2539].  
 64 [2170]. 7 [1011, 1321, 1451, 1487, 1586, 2479]. 72 [125, 1533]. 8 [2295, 2480]. 9  
 [381, 1030, 1189, 1357].  $> 3$  [650].  $[0, 1]^d$  [2272].  ${}_3F_2$  [1324].  $A!B! = C!$  [2227].  
 $A$  [497, 749, 1033, 1048, 1245, 1657, 1765, 1854, 2601].  $a(n, k)$  [355].  $A(q)$  [816].  
 $A + A$  [2532].  $A + A + A$  [497].  $A + B$  [146].  $A_m$  [456].  $A_n$  [1639].  $AAA$   
 [2532].  $\alpha$  [255, 1452, 2124, 2496].  $\alpha p^\gamma + \beta$  [1941].  $B$  [1671, 1718].  $B_{\text{dR}}^+$  [134].  
 $\text{Spec}(\mathbf{Z})$  [1561].  $\beta$  [855, 1669, 1979, 2554].  $\binom{2k}{k}^2 \binom{3k}{k}$  [709].  $\text{mod } 1$  [1308, 1840].  
 $\text{mod } 11$  [979].  $\text{mod } 2$  [1131].  $\text{mod } 3$  [83].  $\text{mod } 4$  [2241].  $\text{mod } \ell$  [321, 1859].  $\text{mod } l$   
 [1943].  $\text{mod } \mathcal{P}^\sharp$  [608].  $\text{mod } \mathbf{p}^m$  [57].  $\text{mod } n$  [867].  $\text{mod } p$   
 [466, 1018, 1033, 1165, 1358, 2263, 2449].  $\text{mod } p^n$  [866].  $\text{mod } \wp$  [1470].  $C$  [18].  $C_1$   
 [2585].  $C_m$  [limes] $_\wp C_{mn}$  [2470].  $C_q$  [rtimes] $_s C_m$  [2609].  $D$   
 [32, 1204, 1279, 1604, 1808, 2091].  $D(-1)$  [230].  $D(1)$  [230].  $D(4)$  [2384].  $D(n)$   
 [2159].  $D_n$  [554].  $\Delta$  [1384].  $\Delta(\text{prime})^2$  [1384].  $\Delta_{\mathcal{O}(\mathbb{F})_\infty}$  [863].  $E$   
 [706, 899, 1168].  $e^\gamma$  [1536].  $\ell$  [646, 720, 828, 829].  $\epsilon(k)$  [1885].  $er = p - 1$  [1642].  
 $F$  [582, 1012, 1713].  $f(p + q + n_0) = f(p) + f(q) + f(n_0)$  [1641].  $F_4$  [2506].  $\frac{n+3}{2}$   
 [2537].  $G$  [893, 1915].  $g^2$  [2124].  $\Gamma$  [14, 542, 1561, 2466].  $\Gamma^*(k)$  [359].  $\Gamma_0(2)$   
 [2612].  $\Gamma_0(3)$  [2250].  $\Gamma_0(\mathbf{p})$  [1027].  $\Gamma_0(N)$  [2296].  $\Gamma_0(p^\alpha)$  [245].  $\Gamma_0^+(2)$  [1673].  
 $\gamma_\alpha(z)$  [602].  $h$  [1373].  $H(\sqrt{N})$  [111].  $j$  [58, 1261, 1280].  $K$   
 [355, 482, 598, 659, 688, 803, 811, 982, 1247, 1282, 1312, 1338, 1542, 1661, 1718,  
 1730, 1763, 1992, 2167, 2230, 2259, 2430].  $k(t)$  [1225].  $k + l$  [2468].  $k/12$  [2348].  
 $K3$  [122, 261, 262, 2309].  $k = mp^s$  [1282].  $K_2$  [1104].  $ka^x + lb^y = c^z$  [2233].  $L$   
 [40, 65, 84, 168, 182, 219, 245, 249, 268, 292, 296, 301, 312–314, 320, 326, 342, 347,  
 384, 387, 407, 468, 503, 524, 586, 621, 645, 666, 668, 671, 766, 769, 880, 884, 905,  
 978, 1017, 1031, 1035, 1040, 1081, 1093, 1114, 1120, 1162, 1167, 1170, 1184, 1217,  
 1228, 1301, 1345, 1368, 1387, 1416, 1465, 1488, 1498, 1536, 1694, 1705, 1764, 1802,  
 1858, 1859, 1865, 1909, 1920, 1938, 1973, 2004, 2091, 2096, 2117, 2118, 2140, 2158,  
 2211, 2212, 2223, 2243, 2258, 2278, 2285, 2288, 2300, 2316, 2322, 2380, 2425, 2437,  
 2451, 2471, 2508, 2529, 2575, 2583, 2611, 2616, 2621, 2626, 2635].  $L$   
 [68, 101, 110, 251, 408, 414, 555, 742, 851, 983, 991, 1032, 1299, 1380, 1555, 1616,  
 1693, 1809, 2021, 2312, 2388, 2426, 2591].  $L(1, \chi)$  [1969].  $L(1, \chi_s)/\Pi$  [2231].  
 $L(1/2, f \times \chi_q)$  [705].  $L(\frac{1}{2}, \chi)$  [581, 775].  $L(\frac{1}{2}, \chi_d)$  [2464].  $L(\frac{1}{2}, \text{Sym}^2 f \times g)$  [2649].  
 $L(\frac{1}{2}, \text{Sym}^2 f \times g)$  [2557].  $L^2(\Gamma \setminus \text{Sp}(2, \mathbf{R}))$  [822].  $L_2$  [1671].  $L_n^{(-1-n-r)}(x)$  [2133].  
 $L_n^{(\frac{1}{2}+u)}(x)$  [1480].  $L_\odot(\beta)$  [2020].  $\Lambda$  [542, 965, 1174, 1243].  $\Lambda^2 \Lambda^-$  [363].  
 $\lambda_1 x_1^{k_1} + \cdots + \lambda_t x_t^{k_t} \equiv c \pmod n$  [2224].  $[-m, n]$  [2584].  $[n^c]$  [520].  $lm$  [148].

$\log 3$  [1037].  $m$  [456, 477, 544, 580, 867, 1750, 2188].  $M_2$  [1674].  $M_{2k}(\Gamma_0(N))$  [2416].  $\mathbf{C}$  [782].  $\mathbf{F}_2$  [923].  $\mathbf{F}_2[T]$  [722].  $\mathbf{F}_p$  [2458, 2528].  $\mathbf{F}_p(t)$  [1047].  $\mathbf{F}_q$  [2354].  $\mathbf{F}_q((x^{-1}))$  [2020].  $\mathbf{F}_q(T)$  [241, 2234].  $\mathbf{F}_q[[T]]$  [976].  $\mathbf{F}_q[t]$  [86, 974, 1213].  $\mathbf{F}_q^2$  [2062].  $\mathbf{G}_m \setminus \mu_N$  [1491].  $\mathbf{N}^d$  [1174].  $\mathbf{N}^r$  [2232].  $\mathbf{P}^2$  [398].  $\mathbf{P}^N$  [2282, 2400].  $\mathbf{Q}$  [275, 720, 1158, 1383].  $\mathbf{Q}(i\sqrt{2})$  [364].  $\mathbf{Q}(\zeta_{p^n+1})^+$  [1488].  $\mathbf{Q}_p$  [606].  $\mathbf{R}^d$  [2325].  $\mathbf{U}_4(\mathbf{F}_p)$  [1942].  $\mathbf{Z}/3$  [1767].  $\mathbf{Z}/m\mathbf{Z}$  [1053].  $\mathbf{Z}[i]$  [121].  $\mathbf{Z}^3$  [231].  $\mathbf{Z}_2$  [1281, 1756].  $\mathbf{Z}_l$  [1104].  $\mathbf{Z}_p$  [226, 228, 457, 859, 1263, 1837, 2243, 2249].  $\mathbf{Z}_p^d$  [2581].  $\mathbf{Z}_p^n$  [542].  $\mathbf{Z}_{p_1} \times \cdots \times \mathbf{Z}_{p_s}$  [720].  $\mathbf{P}^n(\mathbf{C})(n \geq 1)$  [2297].  $\mathbf{Q}$  [800].  $\mathbf{Z}_m$  [64].  $\mathbf{Z}_p$  [2236, 2368].  $\mathcal{D}$  [672].  $\mathcal{F}_{\infty, \epsilon}$  [1342].  $\mathcal{H} \times \mathbf{C}^{(\cdot, \infty)}$  [2391].  $\mathcal{I}^{(\text{II})}$  [2120].  $\mathcal{L}$  [1185].  $\mathcal{P}$  [1489].  $\mathfrak{gl}(n)$  [1147].  $\mathfrak{p}$  [323, 1938].  $\mathfrak{v}$  [929].  $GL(2)$  [485, 1380, 2035].  $GL(3)$  [192, 320, 1220].  $GL(3) \times GL(2)$  [320].  $GL_2$  [621].  $GL_m$  [1228].  $GL_m(D)$  [823].  $SL(2, \mathbf{C})$  [1132].  $SL(2, \mathbf{Z}[i])$  [1000].  $SL_2(\mathbf{Q}_p)$  [693, 2489].  $SL_m(\mathbf{Z})$  [1587].  $SO_0(m, 2)$  [555].  $SO_{2n} \times GL_n$  [147].  $Sp(4)$  [1139].  $\text{Gal}(\mathbf{k}((t))/\mathbf{k})$  [1638].  $\text{Gal}(\mathbf{K}_2^{(2)}/\mathbf{K})$  [1992].  $\text{GCF}_\epsilon$  [1885].  $GL(2)$  [1509, 1621].  $GL(2, D)$  [1279].  $GL(2, \mathbf{F}_q[[T]])$  [1696].  $GL(3) \times GL(2)$  [2113].  $GL(4)$  [825, 1131].  $GL(4) \times GL(2)$  [2626].  $GL(n)$  [1144, 1559, 2134].  $GL(r)$  [1535].  $GL(r) \times GL(r+s) \times GL(s)$  [879].  $GL_2$  [778, 1897, 1938].  $GL_2(\mathbf{A})$  [1027].  $GL_2(\mathbf{F})$  [1018].  $GL_n$  [1529, 2212].  $GL_n(\mathbf{F})$  [1482].  $GO_4$  [1518].  $GSp(4)$  [920, 1134].  $GSp(4, \mathbf{F})$  [2426].  $GSp_4$  [2072, 2493].  $\text{lcm}(a, b, c) \leq 6$  [1729].  $PGL(2)$  [623].  $PGL(2, \mathbf{F})$  [633].  $PSL_2$  [2371].  $PSL_2(\mathbf{R})^n$  [751].  $PSL_4(\mathbf{Z})$  [394].  $\text{Res} < 1/2$  [875].  $SL(2, \mathbf{Z})$  [2324].  $SL(n, \mathbf{Z})$  [1316].  $SL_2$  [1460, 1556].  $SL_2(\mathbf{Z})$  [2274].  $SL_n$  [2256].  $SL_n(\mathbf{A})$  [2338].  $SO_4$  [2604].  $Sp(4, \mathbf{F})$  [2487].  $Sp_{2m} \times Sp_{2n}$  [229].  $Sp_4$  [2604].  $U(1)$  [680].  $U(1, 1)$  [680].  $U_2$  [2604].  $M \setminus L$  [2396].  $\mu$  [904].  $\mu = 0$  [1822].  $N$  [353, 355, 482, 531, 589, 604, 807, 1243, 1351, 1502, 1657, 1777, 1914, 2159, 2242, 2425].  $n/\varphi(n)$  [588].  $N = 2, 3, 4, 6, 8$  [1491].  $n = p^\alpha q^\beta$  [862].  $n = x^2 + Ny^2$  [111].  $n^2 = x^2 + by^2 + cz^2$  [649].  $nx^2 + 2^m = y^n$  [327, 1001].  $NX^2 + 2L_3M = Y^N$  [1016].  $\Omega$  [63, 1316, 2551].  $P$  [2, 14, 55, 65, 91, 243, 285, 298, 309, 331, 349, 372, 374, 457, 478, 492, 512, 525, 542, 593, 635, 690, 693, 702, 707, 733, 754, 757, 788, 819, 829, 837, 866, 869, 877, 881, 885, 892, 905, 912, 924, 957, 990, 993, 1013, 1023, 1081, 1087, 1091, 1183, 1208, 1268, 1279, 1301, 1310, 1412, 1433, 1435, 1474, 1488, 1503, 1556, 1558, 1655, 1668, 1726, 1735, 1738, 1751, 1765, 1775, 1786, 1805, 1811, 1842, 1846, 1874, 1875, 1902, 1927, 1957, 1965, 1966, 1970, 2040, 2072, 2083, 2091, 2236, 2239, 2300, 2323, 2373, 2412, 2415, 2453, 2502, 2526, 2552, 2581, 2614, 2630].  $p$  [154, 251, 539, 1190, 1352].  $p+1|n+1$  [1155].  $p+2^\ell$  [2606].  $p=2$  [949, 2622].  $p = a^2 \pm ab \pm b^2$  [1668].  $p = x^2 + 3y^2$  [791].  $p^2$  [419, 837, 1282].  $p^3$  [1282, 1297].  $p^\ell$  [258].  $p^n$  [1383].  $\Phi_T(X, Y)$  [311].  $\pi$  [358, 906, 967].  $\pi^{-2}$  [1443, 1882].  $\pi^4$  [1997].  $\pi^6$  [1997].  $\pm ra^x \pm sb^y = c$  [293].  $px^2 + q^{2m} = y^p$  [7, 189].  $px^2 + q^{2n} = y^p$  [336].  $Q$  [40, 413, 647, 819, 836, 844, 900, 1111, 1281, 1296, 1386, 1464, 1511, 1743, 1880, 1887, 1904, 1914, 1967, 2066, 2140, 2512, 2534].  $q+1$  [2062].  $r$  [22, 1661, 1974, 2269, 2499].  $S$  [47, 133, 963, 1460, 1605, 1894, 2092, 2093, 2436].  $s = -1$  [1045].  $s = 0$  [516].  $s = 1$  [671].  $s = 1/2$  [1536].  $S_3(\Gamma_0(24), \chi)$  [2189].  $S_3(\Gamma_2(2, 4, 8))$  [407].  $S_4$  [2460].  $S_n(\sigma, t)$  [2516]. *[Cyrillicsha]* [236, 379].  $\sigma(n)/n$  [588].  $\sum_{ak+bl+cm=n} \sigma(k)\sigma(l)\sigma(m)$  [1729].  $\sum_{i=1}^{11} \frac{1}{x_i} = 1$  [732].  $\sum_{n=1}^{\infty} \sigma_k(n)/n!$

[275].  $\sum_{r=1}^r e(a2^r/q)$  [566].  $T$   
 [537, 722, 861, 984, 1167, 1343, 1672, 1696, 1830, 2053, 2100, 2223, 2422].  
 $t^2 = G(x, y, z)$  [1454].  $\theta$  [1801, 2402, 2551].  $\theta_{10}$  [1327].  $U$  [1336, 1480].  $U(2, 1)$   
 [2412].  $U(3) \times U(2)$  [1645].  $U(n)$  [1611].  $U(n, 1)$  [1749].  $U_p$  [55].  $\Upsilon$  [1203].  $v$   
 [537, 820].  $\varphi(n)$  [1506].  $\varphi^4$  [2160].  $\|e^n\|$  [139].  $w$  [432, 716].  $X$   
 [1571, 2588, 2589].  $x(ax + 1) + y(by + 1) + z(cz + 1)$  [1814].  
 $x(ax + b) + y(ay + c) + z(az + d)$  [1814].  $x^2 + ny^2$  [74].  $x^2 - (a^2 - 1)y^2 = 1$   
 [2150].  $x^2 - 24y^2 = 1$  [1157].  $X_0^*(p)$  [2420].  $x^d + ax$  [1498].  $x^n - 1$  [1700, 1774].  
 $x^q = a$  [606].  $X_0(N)$  [817, 2579].  $X_0(p)$  [55].  $X_0^+(37M)$  [181].  $X_0^+(N)$  [2183].  
 $x_1^2 + 2x_2^2 + x_3^2 + x_4^2 + x_1x_3 + x_1x_4 + x_2x_4$  [395].  $x_1^2 + \dots + x_k^2 \equiv \lambda \pmod{n}$   
 [2521].  $x_1x_2 \equiv x_3x_4 \pmod{m}$  [67].  $x_1x_2 \equiv x_3x_4 \pmod{q}$  [2041].  $X_2(2)$  [2582].  
 $x \equiv 1 \pmod{N}$  [74].  $\Xi$  [1256, 1731].  $X \mapsto K \cdot (X + X^{-1})$  [1038].  $X \mapsto X + X^{-1}$   
 [686].  $y^2 + xy - t^d y = x^3$  [1714].  $y^2 - pz^2 = 1$  [1157, 2150].  $y^2 = x^3 + n$  [435].  
 $y^2 = x^3 - nx$  [712].  $y^n = x^m + x$  [1098].  $y^q = x^p + a$  [1118].  $y \equiv 0 \pmod{N}$  [74].  
 $Z$  [1896, 2164].  $z^2 = f(x)^2 \pm g(y)^2$  [1899].  $Z_{p^2}^*$  [196].  $\zeta(2)$  [1116].  
 $\zeta(\{\{2\}^m, 1, \{2\}^m, 3\}^n, \{2\}^m) / \pi^{4n+2m(2n+1)}$  [1230].  $\zeta(3)$  [1116].  $\zeta(s)$   
 [248, 1643, 2173].  $\zeta'(s)$  [541, 1643].  $|\zeta(\frac{1}{2} + it)|$  [1197].

**-additive** [1511]. **-Adic**

[2, 14, 55, 65, 101, 213, 243, 251, 309, 323, 349, 478, 492, 512, 525, 537, 542, 593,  
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 957, 984, 990, 1023, 1081, 1087, 1091, 1183, 1190, 1208, 1243, 1268, 1275, 1301,  
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 1751, 1786, 1805, 1842, 1846, 1894, 1902, 1938, 1965, 1970, 2040, 2075, 2083, 2091,  
 2181, 2223, 2239, 2300, 2358, 2453, 2502, 2526, 2552, 2580, 2611, 2614, 2630].  
**-adique** [2, 154, 820]. **-adisches** [2580]. **-algebra** [2312]. **-analog** [844].  
**-analogue** [1887]. **-analogues** [1111]. **-ary** [877, 1750, 2019, 2188]. **-bases**  
 [1373, 1916]. **-Bell** [1974]. **-Bernoulli** [1412]. **-binomial** [900]. **-Class**  
 [664, 1192, 1339, 1499, 1811, 1876, 1992, 2079, 2093]. **-coefficients** [1767].  
**-color** [1402, 1594]. **-colored** [2088, 2167, 2230]. **-complete** [1604].  
**-continued** [255, 807]. **-convergence** [2120]. **-coordinates** [2588, 2589].  
**-core** [861, 972, 1011, 2100]. **-cores** [1242]. **-covering** [544]. **-covers** [2243].  
**-crystals** [582]. **-decompositions** [1012]. **-deformed** [819]. **-derived** [1730].  
**-diamond** [843, 890, 995, 1011, 1788]. **-differences** [2499]. **-digit** [2181].  
**-dimensional** [32, 133, 430, 604, 1487, 1956]. **-divisible** [967]. **-division**  
 [790, 2518]. **-eigenspaces** [1248]. **-elliptic** [672]. **-expansion** [1669, 1979].  
**-expansions** [749, 1245, 1801, 2124, 2402, 2496, 2554]. **-exponents** [836].  
**-extension** [230, 720]. **-extensions**  
 [91, 226, 457, 859, 924, 1104, 1263, 1837, 1942, 2236, 2249, 2369]. **-factors**  
 [1520, 2426, 2466]. **-family** [1048]. **-fields** [2585]. **-fold** [982, 1357, 2582].  
**-folds** [973]. **-forms** [1489]. **-formula** [2348]. **-free** [1502]. **-friable** [1718].  
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