



Prüfung Grösserer Zahlen auf Ihre Eigenschaft als Primzahlen

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Prüfung grösserer Zahlen auf ihre Eigenschaft als Primzahlen.

(FORTSETZUNG VON VOL. VII, NRO. 3.)

VON P. SEELHOFF.

Als Fortsetzung meiner Ausführungen in Nro. 3 gebe ich zunächst eine tabellarische Zusammenstellung von 192 negativen Determinanten. Die Tabelle besteht aus 3 Kolonnen. Die erste mit der Aufschrift *D* giebt die Determinanten selbst, die zweite die daraus abgeleiteten Hauptformen (*Formae principales*) und die dritte den Gesamtcharakter dieser Formen. Als wesentlichste und für den vorliegenden Zweck nothwendige Eigenschaft dieser Hauptformen soll noch einmal hervorgehoben werden, dass neben ihnen keine anderen reducirten Formen mit demselben Gesamtcharakter bestehen. Die Bezeichnung der einzelnen Charaktere $3n + r$, $3n - r$, etc. bedeutet, dass die Zahl N , welche dargestellt werden soll, für 3 etc. quadratischer Rest, resp. Nichtrest ist. Haben mehrere Formen denselben Gesamtcharakter, so ist dieser nur bei der ersten Form ausführlich angegeben.

Eine auch für die Zahltypen $8n + 3$, $8n + 5$ und $8n + 7$ durchgeführte Sonderung der Formen erschien mir nicht zweckmässig, weil hierdurch zu viele Wiederholungen nothwendig würden, und wenn ich nach eigener Erfahrung urtheilen darf, so ist die jetzt gewählte Zusammenstellung für den Gebrauch von hinreichender Uebersichtlichkeit.

Ich möchte dies an einem Beispiele nachweisen, welches mir zugleich Gelegenheit geben wird, das in dem früheren Aufsätze über das Verfahren Beigebrachte in einzelnen Punkten zu ergänzen.

Herr J. W. L. Glaisher in Cambridge äussert sich in einem seiner Aufsätze, wie folgt: "The process of determining without a table the factors of a number is excessively laborious. Thus to determine, for example, whether the number 8559091 is or not a prime would require a long day's work." Sehen wir zu!

Es findet sich sofort, dass diese Zahl N quadratischer Rest für 3, 5, 7, 17, 19, 23, dagegen Nichtrest für 11, 13, 29, 31 ist. Unter den Formen, für welche sich einige dieser Charaktere in Verbindung mit dem besonderen Charakter $8n + 3$ vereinigt finden, wähle ich die beiden Hauptformen (15, 0, 364) und (60, 0, 91) der Determinante -5460 , für welche mein hat $3n + r$, $5n + r$, $7n + r$, $13n - r$; $8n + 3$, 7,

$$1. \quad 15a + 364b = N$$

Da $N \equiv 1 (15)$, $364 \equiv 4 (15)$ und $4 \cdot 4 \equiv 1 (15)$ ist, so subtrahire ich $364 \cdot 4$ von N und dividire durch 15. Dann ist

$$a = 575509 - 364k$$

$$b = 4 + 15k.$$

Ferner hat man $575509 \equiv 4 (7)$, $\equiv 12 (13)$; setzt man demnach

$$15x^2 + 364y^2 = N,$$

so ist $x = 4t \pm 1 = 7u \pm 2 = 13v \pm 5$ und weil $\sqrt{575509} = 758$ die obere Grenze bildet

$$x = \begin{matrix} 5, & 47, & 135, & 177, & 187, & 229, & 317, & 359, \\ 369, & 411, & 499, & 541, & 551, & 593, & 681, & 723, \\ 733. \end{matrix}$$

Leitet man hieraus mit Hülfe von Quadratzahlentafeln k und in zweiter Linie b ab, so wird letzteres für keinen dieser Werte ein Quadrat.

$$2. \quad 60a + 91b = N.$$

Aehnlich wie oben findet man

$$a = 142650 - 91k$$

$$b = 1 + 60k$$

$$x = \begin{matrix} 12, & 40, & 51, & 79 \\ 103, & 131, & 142, & 170 \\ 194, & 222, & 233, & 261 \\ 285, & 313, & 324, & 362 \\ 376. \end{matrix}$$

Nur für $x = 376$ ist b oder $y^2 =$ einem Quadrate, nämlich $841 = 29^2$. Also ist $8559093 = 60 \cdot 376^2 + 91 \cdot 29^2$ eine Primzahl.

Ich muss ferner auf das in dem ersten Artikel gesagte noch in einer anderen Beziehung zurückkommen. An ein oder zwei Stellen, wo es sich um mehrere Hauptformen mit gemeinschaftlichem Gesamtcharakter handelt, war meine Ausdrucksweise vielleicht nicht genau genug, ich gestatte mir deshalb, um jedem Misverständnisse vorzubeugen, noch einige Worte.

Aus der Determinante — 1012 lassen sich, um ein Beispiel anzuführen folgende Hauptformen ableiten.

$$\begin{Bmatrix} 1, & 0, & 1012 \\ 4, & 0, & 253 \end{Bmatrix} \text{ und } \begin{Bmatrix} 11, & 0, & 92 \\ 23, & 0, & 44 \end{Bmatrix}.$$

Die beiden Formen in der ersten Klammer haben denselben Gesamtcharakter, ebenso die beiden in der zweiten Klammer. Nennt man nun nach Gauss einen solchen Complex von Formen mit demselben Gesamtcharakter eine Gattung (genus), so ergibt sich für sämtliche 192 Determinanten folgendes: Erhält man aus *sämtlichen* Formen einer Gattung nur eine Darstellung der Zahl N , so ist diese eine Primzahl; erhält man keine Darstellung, so ist N zusammengesetzt. Erhält man mehr als eine Darstellung für eine und dieselbe Form oder auch für mehrere der Gattung angehörige, so lässt sich aus einem Paare solcher Darstellungen ein Paar Faktoren von N ableiten.

Wie dies geschehen kann für den Fall, dass beide Darstellungen durch dieselbe Form gebildet werden, habe ich in dem ersten Artikel nach dem Vorgange Eulers gezeigt; es bleibt also noch der andere Fall übrig, dass zwei verschiedene Formen zur Darstellung dienen. Sei also für die Determinante — mnp

$$mnx^2 + py^2 = N \quad (1)$$

$$m\xi^2 + n\eta^2 = N \quad (2)$$

so multiplicire man (2) mit nx^2 und (1) mit ξ^2 , dann ist

$$mn(\xi x)^2 + p(\xi y)^2 = \xi^2 N$$

$$mn(\xi x)^2 + p(n\eta x)^2 = nx^2 N$$

und hieraus

$$p\{(\xi y)^2 - (n\eta x)^2\} = (\xi^2 - nx^2) N.$$

Bestimmt man jetzt noch den grössten gemeinschaftlichen Divisor von $\xi y + n\eta x$ oder $\xi y - n\eta x$ und N , so ist dieser einer der gesuchten Divisoren.

BREMEN im Mai 1885.

D	Formen.	Charaktere.	D	Formen.	Charaktere.
— 1	1, 0, 1	$8n+1, 5$	— 42	6, 0, 7	$3n+r, 7n-r; 8n+5, 7$
— 2	1, 0, 2	$8n+1, 3$	— 45	1, 0, 45	$3n+r, 5n+r; 8n+1, 5$
— 3	1, 0, 3	$3n+r; 8n+1, 3, 5, 7$		5, 0, 9	$3n-r, 5n+r; 8n+1, 5$
— 4	1, 0, 4	$8n+1, 5$	— 46	1, 0, 46	$23n+r; 8n+1, 7$
— 5	1, 0, 5	$5n+r; 8n+1, 5$		2, 0, 23	" ; "
— 6	1, 0, 6	$3n+r; 8n+1, 7$	— 48	1, 0, 48	$3n+r; 8n+1$
	2, 0, 3	$3n-r; 8n+3, 5$		3, 0, 16	$3n+r; 8n+3$
— 7	1, 0, 7	$7n+r; 8n+1, 3, 5, 7$	— 55	1, 0, 55	$5n+r, 11n+r; 8n+1, 3, 5, 7$
— 8	1, 0, 8	$8n+1$		5, 0, 11	" ; "
9	1, 0, 9	$3n+r; 8n+1, 5$	— 57	1, 0, 57	$3n+r, 19n+r; 8n+1, 5$
— 10	1, 0, 10	$5n+r; 8n+1, 3$		3, 0, 19	$3n+r, 19n-r; 8n+3, 7$
	2, 0, 5	$5n-r; 8n+5, 7$	— 58	1, 0, 58	$29n+r; 8n+1, 3$
— 12	1, 0, 12	$3n+r; 8n+1, 5$		2, 0, 29	$29n-r; 8n+5, 7$
	3, 0, 4	$3n+r; 8n+3, 7$	— 60	1, 0, 60	$3n+r, 5n+r; 8n+1, 5$
— 13	1, 0, 13	$13n+r; 8n+1, 5$		3, 0, 20	$3n-r, 5n-r; 8n+3, 7$
— 14	1, 0, 14	$7n+r; 8n+1, 7$		4, 0, 15	$3n+r, 5n+r; 8n+3, 7$
	2, 0, 7	" ; "		5, 0, 12	$3n-r, 5n-r; 8n+1, 5$
— 15	1, 0, 15	$3n+r, 5n+r; 8n+1, 3, 5, 7$	— 63	1, 0, 63	$3n+r, 7n+r; 8n+1, 3, 5, 7,$
	3, 0, 5	$3n-r, 5n-r; 8n+1, 3, 5, 7$		7, 0, 9	" ; "
— 16	1, 0, 16	$8n+1$	— 66	1, 0, 66	$3n+r, 11n+r; 8n+1, 3$
— 18	1, 0, 18	$3n+r; 8n+1, 3$		3, 0, 22	" ; "
	2, 0, 9	$3n-r; 8n+1, 3$		2, 0, 33	$3n-r, 11n-r; 8n+1, 3$
— 20	1, 0, 20	$5n+r; 8n+1, 5$		6, 0, 11	" ; "
	4, 0, 5	" ; "	— 70	1, 0, 70	$5n+r, 7n+r; 8n+1, 7$
— 21	1, 0, 21	$3n+r, 7n+r; 8n+1, 5$		2, 0, 35	$5n-r, 7n+r; 8n+3, 5$
	3, 0, 7	$3n+r, 7n-r; 8n+3, 7$		5, 0, 14	$5n+r, 7n-r; 8n+3, 5$
— 22	1, 0, 22	$11n+r; 8n+1, 7$		7, 0, 10	$5n-r, 7n-r; 8n+1, 7$
	2, 0, 11	$11n-r; 8n+3, 5$	— 72	1, 0, 72	$3n+r; 8n+1$
— 24	1, 0, 24	$3n+r; 8n+1$		8, 0, 9	$3n-r; 8n+1$
	3, 0, 8	$3n-r; 8n+3$	— 78	1, 0, 78	$3n+r, 13n+r; 8n+1, 7$
— 25	1, 0, 25	$5n+r; 8n+1, 5$		2, 0, 39	$3n-r, 13n-r; 8n+1, 7$
— 28	1, 0, 28	$7n+r; 8n+1, 5$		3, 0, 26	$3n-r, 13n+r; 8n+3, 5$
	4, 0, 7	$7n+r; 8n+3, 7$		6, 0, 13	$3n+r, 13n-r; 8n+3, 5$
— 30	1, 0, 30	$3n+r, 5n+r; 8n+1, 7$	— 82	1, 0, 82	$41n+r; 8n+1, 3$
	2, 0, 15	$3n-r, 5n-r; 8n+1, 7$		2, 0, 41	" ; "
	3, 0, 10	$3n+r, 5n-r; 8n+3, 5$	— 84	1, 0, 84	$3n+r, 7n+r; 8n+1, 5$
	5, 0, 6	$3n-r, 5n+r; 8n+3, 5$		4, 0, 21	" ; "
— 33	1, 0, 33	$3n+r, 11n+r; 8n+1, 5$		3, 0, 28	$3n+r, 7n-r; 8n+3, 7$
	3, 0, 11	$3n-r, 11n+r; 8n+3, 7$		7, 0, 12	" ; "
— 34	1, 0, 34	$17n+r; 8n+1, 3$	— 85	1, 0, 85	$5n+r, 17n+r; 8n+1, 5$
	2, 0, 17	" ; "		5, 0, 17	$5n-r, 17n-r; 8n+1, 5$
— 36	1, 0, 36	$3n+r; 8n+1, 5$	— 88	1, 0, 88	$11n+r; 8n+1$
	4, 0, 9	" ; "		8, 0, 11	$11n-r; 8n+3$
— 37	1, 0, 37	$37n+r; 8n+1, 5$	— 90	1, 0, 90	$3n+r, 5n+r; 8n+1, 3$
— 39	1, 0, 39	$3n+r, 13n+r; 8n+1, 3, 5, 7$		9, 0, 10	" ; "
	3, 0, 13	" ; "		2, 0, 45	$3n-r, 5n-r; 8n+5, 7$
— 40	1, 0, 40	$5n+r; 8n+1$		5, 0, 18	" ; "
	5, 0, 8	$5n-r; 8n+5$	— 93	1, 0, 93	$3n+r, 31n+r; 8n+1, 5$
— 42	1, 0, 42	$3n+r, 7n+r; 8n+1, 3$		3, 0, 31	$3n+r, 31n-r; 8n+3, 7$
	2, 0, 21	$3n-r; 7n+r; 8n+5, 7$	— 100	1, 0, 100	$5n+r; 8n+1, 5$
	3, 0, 14	$3n-r, 7n-r; 8n+1, 3$		4, 0, 25	" ; "

D	Formen.	Charaktere.	D	Formen.	Charaktere.
—102	1, 0, 102 2, 0, 51 3, 0, 34 6, 0, 17	$3n+r, 17n+r; 8n+1, 7$ $3n-r, 17n+r; 8n+3, 5$ $3n+r, 17n-r; 8n+3, 5$ $3n-r, 17n-r; 8n+1, 7$	—165	1, 0, 165 3, 0, 55 5, 0, 33 11, 0, 15	$3n+r, 5n+r, 11n+r; 8n+1, 5$ $3n+r, 5n-r, 11n+r; 8n+3, 7$ $3n-r, 5n-r, 11n+r; 8n+1, 5$ $3n-r, 5n+r, 11n+r; 8n+3, 7$
—105	1, 0, 105 3, 0, 35 5, 0, 21 7, 0, 15	$3n+r, 5n+r, 7n+r; 8n+1, 5$ $3n-r, 5n-r, 7n-r; 8n+3, 7$ $3n-r, 5n+r, 7n-r; 8n+1, 5$ $3n+r, 5n-r, 7n+r; 8n+3, 7$	—168	1, 0, 168 3, 0, 56 7, 0, 24 8, 0, 21	$3n+r, 7n+r; 8n+1$ $3n-r, 7n-r; 8n+3$ $3n+r, 7n-r; 8n+7$ $3n-r, 7n+r; 8n+5$
—112	1, 0, 112 7, 0, 16	$7n+r; 8n+1$ $7n+r; 8n+7$	—177	1, 0, 177 3, 0, 59	$3n+r, 59n+r; 8n+1, 5$ $3n-r, 59n+r; 8n+3, 7$
—117	1, 0, 117 9, 0, 13	$3n+r, 13n+r; 8n+1, 5$ " ; "	—180	1, 0, 180 4, 0, 45 5, 0, 36 9, 0, 20	$3n+r, 5n+r; 8n+1, 5$ " ; " $3n-r, 5n+r; 8n+1, 5$ " ; "
—120	1, 0, 120 3, 0, 40 5, 0, 24 8, 0, 15	$3n+r, 5n+r; 8n+1$ $3n+r, 5n-r; 8n+3$ $3n-r, 5n+r; 8n+5$ $3n-r, 5n-r; 8n+7$	—190	1, 0, 190 2, 0, 95 5, 0, 38 10, 0, 19	$5n+r, 19n+r; 8n+1, 7$ $5n-r, 19n-r; 8n+1, 7$ $5n-r, 19n+r; 8n+3, 5$ $5n+r, 19n-r; 8n+3, 5$
—130	1, 0, 130 2, 0, 65 5, 0, 26 10, 0, 13	$5n+r, 13n+r; 8n+1, 3$ $5n-r, 13n-r; 8n+1, 3$ $5n+r, 13n-r; 8n+5, 7$ $5n-r, 13n+r; 8n+5, 7$	—198	1, 0, 198 9, 0, 22 2, 0, 99 11, 0, 18	$3n+r, 11n+r; 8n+1, 7$ " ; " $3n-r, 11n-r; 8n+3, 5$ " ; "
—132	1, 0, 132 4, 0, 33 3, 0, 44 11, 0, 12	$3n+r, 11n+r; 8n+1, 5$ " ; " $3n-r, 11n+r; 8n+3, 7$ " ; "	—205	1, 0, 205 5, 0, 41	$5n+r, 41n+r; 8n+1, 5$ " ; "
—133	1, 0, 133 7, 0, 19	$7n+r, 19n+r; 8n+1, 5$ $7n-r, 19n-r; 8n+3, 7$	—210	1, 0, 210 2, 0, 105 3, 0, 70 5, 0, 42 6, 0, 35 7, 0, 30 10, 0, 21 14, 0, 15	$3n+r, 5n+r, 7n+r; 8n+1, 3$ $3n-r, 5n-r, 7n+r; 8n+1, 3$ $3n+r, 5n-r, 7n-r; 8n+1, 3$ $3n-r, 5n-r, 7n-r; 8n+5, 7$ $3n-r, 5n+r, 7n-r; 8n+1, 3$ $3n+r, 5n-r, 7n+r; 8n+5, 7$ $3n+r, 5n+r, 7n-r; 8n+5, 7$ $3n-r, 5n+r, 7n+r; 8n+5, 7$
—136	1, 0, 136 8, 0, 17	$17n+r; 8n+1$ " ; "	—220	1, 0, 220 5, 0, 44 4, 0, 55 11, 0, 20	$5n+r, 11n+r; 8n+1, 5$ " ; " $5n+r, 11n+r; 8n+3, 7$ " ; "
—138	1, 0, 138 3, 0, 46 2, 0, 69 6, 0, 23	$3n+r, 23n+r; 8n+1, 3$ " ; " $3n-r, 23n+r; 8n+5, 7$ " ; "	—225	1, 0, 225 9, 0, 25	$3n+r, 5n+r; 8n+1, 5$ " ; "
—142	1, 0, 142 2, 0, 71	$71n+r; 8n+1, 7$ " ; "	—228	1, 0, 228 4, 0, 57 3, 0, 76 12, 0, 19	$3n+r, 19n+r; 8n+1, 5$ " ; " $3n+r, 19n-r; 8n+3, 7$ " ; "
—144	1, 0, 144 9, 0, 16	$3n+r; 8n+1$ " ; "	—232	1, 0, 232 8, 0, 29	$29n+r; 8n+1$ $29n-r; 8n+5$
—145	1, 0, 145 5, 0, 29	$5n+r, 29n+r; 8n+1, 5$ " ; "	—240	1, 0, 240 3, 0, 80 5, 0, 48 15, 0, 16	$3n+r, 5n+r; 8n+1$ $3n-r, 5n-r; 8n+3$ $3n-r, 5n-r; 8n+5$ $3n+r, 5n+r; 8n+7$
—150	1, 0, 150 6, 0, 25 2, 0, 75 3, 0, 50	$3n+r, 5n+r; 8n+1, 7$ " ; " $3n-r, 5n-r; 8n+3, 5$ " ; "	—252	1, 0, 252 9, 0, 28	$3n+r, 11n+r; 8n+1, 3$ " ; " $7n+r, 11n-r; 8n+5, 7$ " ; " $3n+r, 13n+r; 8n+1, 5$ " ; " $3n+r, 13n+r; 8n+3, 7$ " ; "
—154	1, 0, 154 11, 0, 14 2, 0, 77 7, 0, 22	$7n+r, 11n+r; 8n+1, 3$ " ; " $7n+r, 11n-r; 8n+5, 7$ " ; "			
—156	1, 0, 156 12, 0, 13 3, 0, 52 4, 0, 39	$3n+r, 13n+r; 8n+1, 5$ " ; " $3n+r, 13n+r; 8n+3, 7$ " ; "			

D	Formen.	Charaktere.	D	Formen.	Charaktere.
—252	4, 0, 63 7, 0, 36	$3n+r, 7n+r; 8n+3, 7$ “ ; “	—357	17, 0, 21	$3n-r, 7n-r, 17n+r; 8n+1, 5$
—253	1, 0, 253	$11n+r, 23n+r; 8n+1, 5$	—360	1, 0, 360	$3n+r, 5n+r; 8n+1$
	11, 0, 23	$11n+r, 23n-r; 8n+3, 7$		9, 0, 40	“ ; “
—258	1, 0, 258	$3n+r, 43n+r; 8n+1, 3$		5, 0, 72	$3n-r, 5n-r; 8n+5$
	6, 0, 43	“ ; “		8, 0, 45	“ ; “
	2, 0, 129	$3n-r, 43n-r; 8n+1, 3$	—372	1, 0, 372	$3n+r, 31n+r; 8n+1, 5$
	3, 0, 86	“ ; “		4, 0, 93	“ ; “
—273	1, 0, 273	$3n+r, 7n+r, 13n+r; 8n+1, 5$		3, 0, 124	$3n+r, 31n-r; 8n+3, 7$
	3, 0, 91	$3n+r, 7n-r, 13n+r; 8n+3, 7$		12, 0, 31	“ ; “
	7, 0, 39	$3n+r, 7n+r, 13n-r; 8n+3, 7$	—385	1, 0, 385	$5n+r, 7n+r, 11n+r; 8n+1, 5$
	13, 0, 21	$3n+r, 7n-r, 13n-r; 8n+1, 5$		5, 0, 77	$5n-r, 7n-r, 11n+r; 8n+1, 5$
—280	1, 0, 280	$5n+r, 7n+r; 8n+1$		7, 0, 55	$5n-r, 7n-r, 11n-r; 8n+3, 7$
	5, 0, 56	$5n+r, 7n-r; 8n+5$		11, 0, 35	$5n+r, 7n+r, 11n-r; 8n+3, 7$
	7, 0, 40	$5n-r, 7n-r; 8n+7$	—390	1, 0, 390	$3n+r, 5n+r, 13n+r; 8n+1, 7$
	8, 0, 35	$5n-r, 7n+r; 8n+3$		10, 0, 39	“ ; “
—282	1, 0, 282	$3n+r, 47n+r; 8n+1, 3$		3, 0, 130	$3n+r, 5n-r, 13n+r; 8n+3, 5$
	3, 0, 94	“ ; “		13, 0, 30	“ ; “
	2, 0, 141	$3n-r, 47n+r; 8n+5, 7$		2, 0, 195	$3n-r, 5n-r, 13n-r; 8n+3, 5$
	6, 0, 47	“ ; “		5, 0, 78	“ ; “
—310	1, 0, 310	$5n+r, 31n+r; 8n+1, 7$		6, 0, 65	$3n-r, 5n+r, 13n-r; 8n+1, 7$
	10, 0, 31	“ ; “	—408	15, 0, 26	“ ; “
	2, 0, 155	$5n-r, 31n+r; 8n+3, 5$		1, 0, 408	$3n+r, 17n+r; 8n+1$
	5, 0, 62	“ ; “		3, 0, 136	$3n+r, 17n-r; 8n+3$
—312	1, 0, 312	$3n+r, 13n+r; 8n+1$		8, 0, 51	$3n-r, 17n+r; 8n+3$
	3, 0, 104	$3n-r, 13n+r; 8n+3$		17, 0, 24	$3n-r, 17n-r; 8n+1$
	8, 0, 39	$3n-r, 13n-r; 8n+7$	—420	1, 0, 420	$3n+r, 5n+r, 7n+r; 8n+1, 5$
	13, 0, 24	$3n+r, 13n-r; 8n+5$		4, 0, 105	“ ; “
—328	1, 0, 328	$41n+r; 8n+1$		3, 0, 140	$3n-r, 5n-r, 7n-r; 8n+3, 7$
	8, 0, 41	“ ; “		12, 0, 35	“ ; “
—330	1, 0, 330	$3n+r, 5n+r, 11n+r; 8n+1, 3$		5, 0, 84	$3n-r, 5n+r, 7n-r; 8n+1, 5$
	2, 0, 165	$3n-r, 5n-r, 11n-r; 8n+5, 7$		20, 0, 21	“ ; “
	3, 0, 110	$3n-r, 5n-r, 11n+r; 8n+1, 3$		7, 0, 60	$3n+r, 5n-r, 7n+r; 8n+3, 7$
	5, 0, 66	$3n-r, 5n+r, 11n+r; 8n+5, 7$	—438	15, 0, 28	“ ; “
	6, 0, 55	$3n+r, 5n+r, 11n-r; 8n+5, 7$		1, 0, 438	$3n+r, 73n+r; 8n+1, 7$
	10, 0, 33	$3n+r, 5n-r, 11n-r; 8n+1, 3$		6, 0, 73	“ ; “
	11, 0, 30	$3n-r, 5n+r, 11n-r; 8n+1, 3$		2, 0, 219	$3n-r, 73n+r; 8n+3, 5$
	15, 0, 22	$3n+r, 5n-r, 11n+r; 8n+5, 7$		3, 0, 146	“ ; “
—333	1, 0, 333	$3n+r, 37n+r; 8n+1, 5$	—442	1, 0, 442	$13n+r, 17n+r; 8n+1, 3$
	9, 0, 37	“ ; “		17, 0, 26	“ ; “
—340	1, 0, 340	$5n+r, 17n+r; 8n+1, 5$		2, 0, 221	$13n-r, 17n+r; 8n+5, 7$
	4, 8, 85	“ ; “		13, 0, 34	“ ; “
	5, 0, 68	$5n-r, 17n-r; 8n+1, 5$	—445	1, 0, 445	$5n+r, 89n+r; 8n+1, 5$
	17, 0, 20	“ ; “		5, 0, 89	“ ; “
—345	1, 0, 345	$3n+r, 5n+r, 23n+r; 8n+1, 5$	—462	1, 0, 462	$3n+r, 7n+r, 11n+r; 8n+1, 7$
	3, 0, 115	$3n+r, 5n-r, 23n+r; 8n+3, 7$		2, 0, 231	$3n-r, 7n+r, 11n-r; 8n+1, 7$
	5, 0, 69	$3n-r, 5n+r, 23n-r; 8n+1, 5$		3, 0, 154	$3n+r, 7n-r, 11n+r; 8n+3, 5$
	15, 0, 23	$3n-r, 5n-r, 23n-r; 8n+3, 7$		6, 0, 77	$3n-r, 7n-r, 11n-r; 8n+3, 5$
—357	1, 0, 357	$3n+r, 7n+r, 17n+r; 8n+1, 5$		7, 0, 66	$3n+r, 7n-r, 11n-r; 8n+1, 7$
	3, 0, 119	$3n-r, 7n-r, 17n-r; 8n+3, 7$		11, 0, 42	$3n-r, 7n+r, 11n+r; 8n+3, 5$
	7, 0, 51	$3n+r, 7n+r, 17n-r; 8n+3, 7$		14, 0, 33	$3n-r, 7n-r, 11n+r; 8n+1, 7$
				21, 0, 22	$3n+r, 7n+r, 11n-r; 8n+3, 5$

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—498	1, 0, 498 3, 0, 166 2, 0, 249 6, 0, 83	$3n+r, 83n+r; 8n+1, 3$ “ ; “ $3n-r, 83n-r; 8n+1, 3$ “ ; “	—600	1, 0, 600 24, 0, 25 3, 0, 200 8, 0, 75	$3n+r, 5n+r; 8n+1$ “ ; “ $3n-r, 5n-r; 8n+3$ “ ; “
—505	1, 0, 505 5, 0, 101	$5n+r, 101n+r; 8n+1, 5$ “ ; “	—630	1, 0, 630 9, 0, 70 2, 0, 315 18, 0, 35	$3n+r, 5n+r, 7n+r; 8n+1, 7$ “ ; “ $3n-r, 5n-r, 7n+r; 8n+3, 5$ “ ; “
—510	1, 0, 510 15, 0, 34 2, 0, 255 17, 0, 30 3, 0, 170 5, 0, 102 6, 0, 85 10, 0, 51	$3n+r, 5n+r, 17n+r; 8n+1, 7$ “ ; “ $3n-r, 5n-r, 17n+r; 8n+1, 7$ “ ; “ $3n-r, 5n-r, 17n-r; 8n+3, 5$ “ ; “ $3n+r, 5n+r, 17n-r; 8n+3, 5$ “ ; “		5, 0, 126 14, 0, 45 7, 0, 90 10, 0, 63	$3n-r, 5n+r, 7n-r; 8n+3, 5$ “ ; “ $3n+r, 5n-r, 7n-r; 8n+1, 7$ “ ; “
—520	1, 0, 520 5, 0, 104 8, 0, 65 13, 0, 40	$5n+r, 13n+r; 8n+1$ $5n+r, 13n-r; 8n+5$ $5n-r, 13n-r; 8n+1$ $5n-r, 13n+r; 8n+5$	—658	1, 0, 658 2, 0, 329 7, 0, 94 14, 0, 47	$7n+r, 47n+r; 8n+1, 3$ “ ; “ $7n-r, 47n+r; 8n+5, 7$ “ ; “
—522	1, 0, 522 9, 0, 58 2, 0, 261 18, 0, 29	$3n+r, 29n+r; 8n+1, 3$ “ ; “ $3n-r, 29n-r; 8n+5, 7$ “ ; “	—660	1, 0, 660 4, 0, 165 3, 0, 220 12, 0, 55 5, 0, 132 20, 0, 33	$3n+r, 5n+r, 11n+r; 8n+1, 5$ “ ; “ $3n+r, 5n-r, 11n+r; 8n+3, 7$ “ ; “ $3n-r, 5n-r, 11n+r; 8n+1, 5$ “ ; “
—525	1, 0, 525 21, 0, 25 3, 0, 175 7, 0, 75	$3n+r, 5n+r, 7n+r; 8n+1, 5$ “ ; “ $3n+r, 5n-r, 7n-r; 8n+3, 7$ “ ; “	—690	1, 0, 690 6, 0, 115 2, 0, 345 3, 0, 230 5, 0, 138 23, 0, 30	$3n+r, 5n+r, 23n+r; 8n+1, 3$ “ ; “ $3n-r, 5n-r, 23n+r; 8n+1, 3$ “ ; “ $3n-r, 5n-r, 23n-r; 8n+5, 7$ “ ; “
—528	1, 0, 528 16, 0, 33 3, 0, 176 11, 0, 48	$3n+r, 11n+r; 8n+1$ “ ; “ $3n-r, 11n+r; 8n+3$ “ ; “		10, 0, 69 15, 0, 46	$3n+r, 5n+r, 23n-r; 8n+5, 7$ “ ; “
—532	1, 0, 532 4, 0, 133 7, 0, 76 19, 0, 28	$7n+r, 19n+r; 8n+1, 5$ “ ; “ $7n-r, 19n+r; 8n+3, 7$ “ ; “	—742	1, 0, 742 7, 0, 106 2, 0, 371 14, 0, 53	$7n+r, 53n+r; 8n+1, 7$ “ ; “ $7n+r, 53n-r; 8n+3, 5$ “ ; “
—570	1, 0, 570 19, 0, 30 2, 0, 285 15, 0, 38 3, 0, 190 10, 0, 57 5, 0, 114 6, 0, 95	$3n+r, 5n+r, 19n+r; 8n+1, 3$ “ ; “ $3n-r, 5n-r, 19n-r; 8n+5, 7$ “ ; “ $3n+r, 5n-r, 19n-r; 8n+1, 3$ “ ; “ $3n-r, 5n+r, 19n+r; 8n+5, 7$ “ ; “	—760	1, 0, 760 5, 0, 152 8, 0, 95 19, 0, 40	$5n+r, 19n+r; 8n+1$ $5n-r, 19n+r; 8n+5$ $5n-r, 19n-r; 8n+7$ $5n+r, 19n-r; 8n+3$
—580	1, 0, 580 4, 0, 145 5, 0, 116 20, 0, 29	$5n+r, 29n+r; 8n+1, 5$ “ ; “ “ ; “ “ ; “	—765	1, 0, 765 9, 0, 85 5, 0, 153 17, 0, 45	$3n+r, 5n+r, 17n+r; 8n+1, 5$ “ ; “ $3n-r, 5n-r, 17n-r; 8n+1, 5$ “ ; “
—598	1, 0, 598 23, 0, 26 2, 0, 299 13, 0, 46	$13n+r, 23n+r; 8n+1, 7$ “ ; “ $13n-r, 23n+r; 8n+3, 5$ “ ; “	—777	1, 0, 777 21, 0, 37 3, 0, 259 7, 0, 111	$3n+r, 7n+r, 37n+r; 8n+1, 5$ “ ; “ $3n+r, 7n-r, 37n+r; 8n+3, 7$ “ ; “
			—793	1, 0, 793 13, 0, 61	$13n+r, 61n+r; 8n+1, 5$ “ ; “

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-798	1, 0, 798	$3n+r, 7n+r, 19n+r; 8n+1, 7$	- 912	3, 0, 304	$3n+r, 19n-r; 8n+3$
	7, 0, 114	" ; "		19, 0, 48	" ; "
	2, 0, 399	$3n-r, 7n+r, 19n-r; 8n+1, 7$	-1012	1, 0, 1012	$11n+r, 23n+r; 8n+1, 5$
	14, 0, 57	" ; "		4, 0, 253	" ; "
	3, 0, 266	$3n-r, 7n-r, 19n-r; 8n+3, 5$		11, 0, 92	$11n+r, 23n-r; 8n+3, 7$
	21, 0, 38	" ; "	-1045	23, 0, 44	" ; "
	6, 0, 133	$3n+r, 7n-r, 19n+r; 8n+3, 5$		1, 0, 1045	$5n+r, 11n+r, 19n+r; 8n+1, 5$
-840	19, 0, 42	" ; "		5, 0, 209	" ; "
	1, 0, 840	$3n+r, 5n+r, 7n+r; 8n+1$	-1092	11, 0, 95	$5n+r, 11n-r, 19n+r; 8n+3, 7$
	3, 0, 280	$3n+r, 5n-r, 7n-r; 8n+3$		19, 0, 55	" ; "
	5, 0, 168	$3n-r, 5n-r, 7n-r; 8n+5$		1, 0, 1092	$3n+r, 7n+r, 13n+r; 8n+1, 5$
	7, 0, 120	$3n+r, 5n-r, 7n+r; 8n+7$		4, 0, 273	" ; "
	8, 0, 105	$3n-r, 5n-r, 7n+r; 8n+1$		3, 0, 364	$3n+r, 7n-r, 13n+r; 8n+3, 7$
	15, 0, 56	$3n-r, 5n+r, 7n+r; 8n+7$		12, 0, 91	" ; "
	21, 0, 40	$3n+r, 5n+r, 7n-r; 8n+5$	-1110	7, 0, 156	$3n+r, 7n+r, 13n-r; 8n+3, 7$
	24, 0, 35	$3n-r, 5n+r, 7n-r; 8n+3$		28, 0, 39	" ; "
-858	1, 0, 858	$3n+r, 11n+r, 13n+r; 8n+1, 3$		13, 0, 84	$3n+r, 7n-r, 13n-r; 8n+1, 5$
	3, 0, 286	" ; "		21, 0, 52	" ; "
	2, 0, 429	$3n-r, 11n-r, 13n-r; 8n+5, 7$		1, 0, 1110	$3n+r, 5n+r, 37n+r; 8n+1, 6$
	6, 0, 143	" ; "		10, 0, 111	" ; "
	11, 0, 78	$3n-r, 11n+r, 13n-r; 8n+1, 3$		2, 0, 555	$3n-r, 5n-r, 37n-r; 8n+3, 5$
	26, 0, 33	" ; "		5, 0, 222	" ; "
	13, 0, 66	$3n+r, 11n-r, 13n+r; 8n+5, 7$	-1122	3, 0, 370	$3n+r, 5n-r, 37n+r; 8n+3, 5$
-870	22, 0, 39	" ; "		30, 0, 37	" ; "
	1, 0, 870	$3n+r, 5n+r, 29n+r; 8n+1, 7$		6, 0, 185	$3n-r, 5n+r, 37n-r; 8n+1, 7$
	6, 0, 145	" ; "		15, 0, 74	" ; "
	2, 0, 435	$3n-r, 5n-r, 29n-r; 8n+3, 5$		1, 0, 1122	$3n+r, 11n+r, 17n+r; 8n+1, 3$
	3, 0, 290	" ; "	-1170	33, 0, 34	" ; "
	5, 0, 174	$3n-r, 5n+r, 29n+r; 8n+3, 5$		2, 0, 561	$3n-r, 11n-r, 17n+r; 8n+1, 3$
	29, 0, 30	" ; "		17, 0, 66	" ; "
	10, 0, 87	$3n+r, 5n-r, 29n+r; 8n+1, 7$		3, 0, 374	$3n-r, 11n+r, 17n-r; 8n+1, 3$
-897	15, 0, 58	" ; "		11, 0, 102	" ; "
	1, 0, 897	$3n+r, 13n+r, 23n+r; 8n+1, 5$	-1197	6, 0, 187	$3n+r, 11n-r, 17n-r; 8n+1, 3$
	13, 0, 69	" ; "		22, 0, 51	" ; "
	3, 0, 299	$3n-r, 13n+r, 23n+r; 8n+3, 7$		1, 0, 1170	$3n+r, 5n+r, 13n+r; 8n+1, 3$
	23, 0, 39	" ; "		9, 0, 130	" ; "
-900	1, 0, 900	$3n+r, 5n+r; 8n+1, 5$	-1290	2, 0, 585	$3n-r, 5n-r, 13n-r; 8n+1, 3$
	4, 0, 225	" ; "		18, 0, 65	" ; "
	9, 0, 100	" ; "		5, 0, 234	$3n-r, 5n+r, 13n-r; 8n+5, 7$
	25, 0, 36	" ; "		26, 0, 45	" ; "
-910	1, 0, 910	$5n+r, 7n+r, 13n+r; 8n+1, 7$		10, 0, 117	$3n+r, 5n-r, 13n+r; 8n+5, 7$
	14, 0, 65	" ; "	-1197	13, 0, 90	" ; "
	2, 0, 455	$5n-r, 7n+r, 13n-r; 8n+1, 7$		1, 0, 1197	$3n+r, 7n+r, 19n+r; 8n+1, 5$
	7, 0, 130	" ; "		9, 0, 133	" ; "
	5, 0, 182	$5n-r, 7n-r, 13n-r; 8n+3, 5$		7, 0, 171	$3n+r, 7n-r, 19n+r; 8n+3, 7$
	13, 0, 70	" ; "		19, 0, 63	" ; "
	10, 0, 91	$5n+r, 7n-r, 13n+r; 8n+3, 5$	-1290	1, 0, 1290	$3n+r, 5n+r, 43n+r; 8n+1, 3$
-912	26, 0, 35	" ; "		10, 0, 129	" ; "
	1, 0, 912	$3n+r, 19n+r; 8n+1$		2, 0, 645	$3n-r, 5n-r, 43n-r; 8n+5, 7$
	16, 0, 57	" ; "		5, 0, 258	" ; "

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-1290	3, 0, 430	$3n+r, 5n-r, 43n-r; 8n+1, 3$	-1677	3, 0, 559	$3n+r, 13n+r, 43n-r; 8n+3, 7$	
	30, 0, 43	" ; "		39, 0, 43	" ; "	
	6, 0, 215	$3n-r, 5n+r, 43n+r; 8n+5, 7$	-1680	1, 0, 1680	$3n+r, 5n+r, 7n+r; 8n+1$	
	15, 0, 86	" ; "		16, 0, 105	" ; "	
-1302	1, 0, 1302	$3n+r, 7n+r, 31n+r; 8n+1, 7$		3, 0, 560	$3n-r, 5n-r, 7n-r; 8n+3$	
	7, 0, 186	" ; "		35, 0, 48	" ; "	
	2, 0, 651	$3n-r, 7n+r, 31n+r; 8n+3, 5$	5, 0, 336	$3n-r, 5n+r, 7n-r; 8n+5$		
	14, 0, 93	" ; "	21, 0, 80	" ; "		
	3, 0, 434	$3n-r, 7n-r, 31n-r; 8n+3, 5$	7, 0, 240	$3n+r, 5n-r, 7n+r; 8n+7$		
	21, 0, 62	" ; "	15, 0, 112	" ; "		
	6, 0, 217	$3n+r, 7n-r, 31n-r; 8n+1, 7$	-1705	1, 0, 1705	$5n+r, 11n+r, 31n+r; 8n+1, 5$	
	31, 0, 42	" ; "		5, 0, 341	" ; "	
-1320	1, 0, 1320	$3n+r, 5n+r, 11n+r; 8n+1$		11, 0, 155	$5n+r, 11n+r, 31n-r; 8n+3, 7$	
	3, 0, 440	$3n-r, 5n-r, 11n+r; 8n+3$	31, 0, 55	" ; "		
	5, 0, 264	$3n-r, 5n+r, 11n+r; 8n+5$	-1710	1, 0, 1710	$3n+r, 5n+r, 19n+r; 8n+1, 7$	
	8, 0, 165	$3n-r, 5n-r, 11n-r; 8n+5$		9, 0, 190	" ; "	
	11, 0, 120	$3n-r, 5n+r, 11n-r; 8n+3$		2, 0, 855	$3n-r, 5n-r, 19n-r; 8n+1, 7$	
	15, 0, 88	$3n+r, 5n-r, 11n+r; 8n+7$		18, 0, 95	" ; "	
	24, 0, 55	$3n+r, 5n+r, 11n-r; 8n+7$	5, 0, 342	$3n-r, 5n-r, 19n+r; 8n+3, 5$		
	33, 0, 40	$3n+r, 5n-r, 11n-r; 8n+1$	38, 0, 45	" ; "		
	-1365	1, 0, 1365	$3n+r, 5n+r, 7n+r, 13n+r; 8n+1, 5$	19, 0, 90	$3n+r, 5n+r, 19n-r; 8n+3, 5$	
		3, 0, 455	$3n-r, 5n-r, 7n-r, 13n+r; 8n+3, 7$	10, 0, 171	" ; "	
5, 0, 273		$3n-r, 5n-r, 7n-r, 13n-r; 8n+1, 5$	-1768	1, 0, 1768	$13n+r, 17n+r; 8n+1$	
7, 0, 195		$3n+r, 5n-r, 7n-r, 13n-r; 8n+3, 7$		17, 0, 104	" ; "	
13, 0, 105		$3n+r, 5n-r, 7n-r, 13n+r; 8n+1, 5$		8, 0, 221	$13n-r, 17n+r; 8n+5$	
15, 0, 91		$3n+r, 5n+r, 7n+r, 13n-r; 8n+3, 7$	13, 0, 136	" ; "		
21, 0, 65		$3n-r, 5n+r, 7n+r, 13n-r; 8n+1, 5$	-1785	1, 0, 1785	$3n+r, 5n+r, 7n+r, 17n+r; 8n+1, 5$	
35, 0, 39		$3n-r, 5n+r, 7n+r, 13n+r; 8n+3, 7$		21, 0, 85	" ; "	
-1380	1, 0, 1380	$3n+r, 5n+r, 23n+r; 8n+1, 5$		3, 0, 595	$3n+r, 5n-r, 7n-r, 17n-r; 8n+3, 7$	
	4, 0, 345	" ; "		7, 0, 255	" ; "	
	3, 0, 460	$3n+r, 5n-r, 23n+r; 8n+3, 7$	5, 0, 357	$3n-r, 5n-r, 7n-r, 17n-r; 8n+1, 5$		
	12, 0, 115	" ; "	17, 0, 105	" ; "		
	5, 0, 276	$3n-r, 5n+r, 23n-r; 8n+1, 5$	15, 0, 119	$3n-r, 5n+r, 7n+r, 17n+r; 8n+3, 7$		
	20, 0, 69	" ; "	35, 0, 51	" ; "		
	15, 0, 92	$3n-r, 5n-r, 23n-r; 8n+3, 7$	-1813	1, 0, 1813	$7n+r, 37n+r; 8n+1, 5$	
	23, 0, 60	" ; "		37, 0, 49	" ; "	
	-1582	1, 0, 1582	$7n+r, 113n+r; 8n+1, 7$	-1848	1, 0, 1848	$3n+r, 7n+r, 11n+r; 8n+1$
		2, 0, 791	" ; "		3, 0, 616	$3n+r, 7n-r, 11n+r; 8n+3$
7, 0, 226		" ; "	7, 0, 264		$3n+r, 7n-r, 11n-r; 8n+7$	
14, 0, 113		" ; "	8, 0, 231		$3n-r, 7n+r, 11n-r; 8n+7$	
-1590	1, 0, 1590	$3n+r, 5n+r, 53n+r; 8n+1, 7$	11, 0, 168	$3n-r, 7n+r, 11n+r; 8n+3$		
	6, 0, 265	" ; "	21, 0, 88	$3n+r, 7n+r, 11n-r; 8n+5$		
	10, 0, 159	" ; "	24, 0, 77	$3n-r, 7n-r, 11n-r; 8n+5$		
	15, 0, 106	" ; "	33, 0, 56	$3n-r, 7n-r, 11n+r; 8n+1$		
	2, 0, 795	$3n-r, 5n-r, 53n-r; 8n+3, 5$	-1885	1, 0, 1885	$5n+r, 13n+r, 29n+r; 8n+1, 5$	
	3, 0, 530	" ; "		29, 0, 65	" ; "	
	5, 0, 318	" ; "		5, 0, 377	$5n-r, 13n-r, 29n+r; 8n+1, 5$	
	30, 0, 53	" ; "		13, 0, 145	" ; "	
-1677	1, 0, 1677	$3n+r, 13n+r, 43n+r; 8n+1, 5$				
	13, 0, 129	" ; "				

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-1918	1, 0, 1918	$7n+r, 137n+r; 8n+1, 7$	-2542	1, 0, 2542	$31n+r, 41n+r; 8n+1, 7$
	2, 0, 959	" ; "		2, 0, 1271	" ; "
	7, 0, 274	" ; "		31, 0, 82	" ; "
	14, 0, 137	" ; "		41, 0, 62	" ; "
-2002	1, 0, 2002	$7n+r, 11n+r, 13n+r; 8n+1, 3$	-2632	1, 0, 2632	$7n+r, 47n+r; 8n+1$
	22, 0, 91	" ; "		8, 0, 329	" ; "
	2, 0, 1001	$7n+r, 11n-r, 13n-r; 8n+1, 3$		7, 0, 376	$7n-r, 47n+r; 8n+7$
	11, 0, 182	" ; "		47, 0, 56	" ; "
	7, 0, 236	$7n-r, 11n-r, 13n-r; 8n+5, 7$	-2730	1, 0, 2730	$3n+r, 5n+r, 7n+r, 13n+r; 8n+1, 3$
	13, 0, 154	" ; "		30, 0, 91	" ; "
	14, 0, 143	$7n-r, 11n+r, 13n+r; 8n+5, 7$		2, 0, 1365	$3n-r, 5n-r, 7n+r, 13n-r; 8n+5, 7$
	26, 0, 77	" ; "		15, 0, 182	" ; "
-2020	1, 0, 2020	$5n+r, 101n+r; 8n+1, 5$		3, 0, 910	$3n+r, 5n-r, 7n-r, 13n+r; 8n+1, 3$
	4, 0, 505	" ; "		10, 0, 273	" ; "
	5, 0, 404	" ; "		5, 0, 546	$3n-r, 5n+r, 7n-r, 13n-r; 8n+5, 7$
	20, 0, 101	" ; "		6, 0, 455	" ; "
-2088	1, 0, 2088	$3n+r, 29n+r; 8n+1$		7, 0, 390	$3n+r, 5n-r, 7n-r, 13n-r; 8n+5, 7$
	9, 0, 232	" ; "		13, 0, 210	" ; "
	8, 0, 261	$3n-r, 29n-r; 8n+5$		14, 0, 195	$3n-r, 5n+r, 7n-r, 13n+r; 8n+1, 3$
	29, 0, 72	" ; "		26, 0, 105	" ; "
-2170	1, 0, 2170	$5n+r, 7n+r, 31n+r; 8n+1, 3$		21, 0, 130	$3n+r, 5n+r, 7n+r, 13n-r; 8n+5, 7$
	14, 0, 155	" ; "		39, 0, 70	" ; "
	2, 0, 1085	$5n-r, 7n+r, 31n+r; 8n+5, 7$		35, 0, 78	$3n-r, 5n-r, 7n+r, 13n+r; 8n+1, 3$
	7, 0, 310	" ; "		42, 0, 65	" ; "
	5, 0, 434	$5n+r, 7n-r, 31n+r; 8n+5, 7$	-2790	1, 0, 2790	$3n+r, 5n+r, 31n+r; 8n+1, 7$
	31, 0, 70	" ; "		9, 0, 310	" ; "
	10, 0, 217	$5n-r, 7n-r, 31n+r; 8n+1, 3$		10, 0, 279	" ; "
	35, 0, 62	" ; "		31, 0, 90	" ; "
-2277	1, 0, 2277	$3n+r, 11n+r, 23n+r; 8n+1, 5$		2, 0, 1395	$3n-r, 5n-r, 31n+r; 8n+3, 5$
	9, 0, 253	" ; "		5, 0, 558	" ; "
	11, 0, 207	$3n-r, 11n+r, 23n-r; 8n+3, 7$		18, 0, 155	" ; "
	23, 0, 99	" ; "		45, 0, 62	" ; "
-2310	1, 0, 2310	$3n+r, 5n+r, 7n+r, 11n+r; 8n+1, 7$	-3108	1, 0, 3108	$3n+r, 7n+r, 37n+r; 8n+1, 5$
	15, 0, 154	" ; "		4, 0, 777	" ; "
	2, 0, 1155	$3n-r, 5n-r, 7n+r, 11n-r; 8n+3, 5$		21, 0, 148	" ; "
	30, 0, 77	" ; "		37, 0, 84	" ; "
	3, 0, 770	$3n-r, 5n-r, 7n-r, 11n+r; 8n+3, 5$		3, 0, 1036	$3n+r, 7n-r, 37n+r; 8n+3, 7$
	5, 0, 462	" ; "		7, 0, 444	" ; "
	6, 0, 385	$3n+r, 5n+r, 7n-r, 11n-r; 8n+1, 7$		12, 0, 259	" ; "
	10, 0, 231	" ; "		28, 0, 111	" ; "
	7, 0, 330	$3n+r, 5n-r, 7n+r, 11n-r; 8n+1, 7$	-3172	1, 0, 3172	$13n+r, 61n+r; 8n+1, 5$
	22, 0, 105	" ; "		4, 0, 793	" ; "
	11, 0, 210	$3n-r, 5n+r, 7n+r, 11n+r; 8n+3, 5$		13, 0, 244	" ; "
	14, 0, 165	" ; "		52, 0, 61	" ; "
	21, 0, 110	$3n-r, 5n+r, 7n-r, 11n-r; 8n+3, 5$	-3465	1, 0, 3465	$3n+r, 5n+r, 7n+r, 11n+r; 8n+1, 5$
	35, 0, 66	" ; "		9, 0, 385	" ; "
	33, 0, 70	$3n+r, 5n-r, 7n-r, 11n+r; 8n+1, 7$		5, 0, 693	$3n-r, 5n-r, 7n-r, 11n+r; 8n+1, 5$
	42, 0, 55	" ; "		45, 0, 77	" ; "
				7, 0, 495	$3n+r, 5n-r, 7n-r, 11n-r; 8n+3, 7$
				55, 0, 63	" ; "
				11, 0, 315	$3n-r, 5n+r, 7n+r, 11n-r; 8n+3, 7$
				35, 0, 99	" ; "

D	Formen.	Charaktere.	D	Formen.	Charaktere.	
-3480	1, 0, 3480	$3n+r, 5n+r, 29n+r; 8n+1$	-4305	3, 0, 1435	$3n+r, 5n-r, 7n-r, 41n-r; 8n+3, 7$	
	24, 0, 145	" ; "		7, 0, 615	" ; "	
	3, 0, 1160	$3n-r, 5n-r, 29n-r; 8n+3$		5, 0, 861	$3n-r, 5n+r, 7n-r, 41n+r; 8n+1, 5$	
	8, 0, 435	" ; "		41, 0, 105	" ; "	
	5, 0, 696	$3n-r, 5n+r, 29n+r; 8n+5$		15, 0, 287	$3n-r, 5n-r, 7n+r, 41n-r; 8n+3, 7$	
	29, 0, 120	" ; "		35, 0, 123	" ; "	
	15, 0, 232	$3n+r, 5n-r, 29n-r; 8n+7$	-4488	1, 0, 4488	$3n+r, 11n+r, 17n+r; 8n+1$	
	40, 0, 87	" ; "		33, 0, 136	" ; "	
	-3570	1, 0, 3570		$3n+r, 5n+r, 7n+r, 17n+r; 8n+1, 3$	3, 0, 1496	$3n-r, 11n+r, 17n-r; 8n+3$
		51, 0, 70		" ; "	11, 0, 408	" ; "
2, 0, 1785		$3n-r, 5n-r, 7n+r, 17n+r; 8n+1, 3$	8, 0, 561	$3n-r, 11n-r, 17n+r; 8n+1$		
35, 0, 102		" ; "	17, 0, 264	" ; "		
3, 0, 1190		$3n-r, 5n-r, 7n-r, 17n-r; 8n+1, 3$	24, 0, 187	$3n+r, 11n-r, 17n-r; 8n+3$		
17, 0, 210		" ; "	51, 0, 88	" ; "		
5, 0, 714		$3n-r, 5n+r, 7n-r, 17n-r; 8n+5, 7$	-4680	1, 0, 4680	$3n+r, 5n+r, 13n+r; 8n+1$	
14, 0, 255		" ; "		9, 0, 520	" ; "	
6, 0, 595		$3n+r, 5n+r, 7n-r, 17n-r; 8n+1, 3$		5, 0, 936	$3n-r, 5n+r, 13n-r; 8n+5$	
34, 0, 105		" ; "		45, 0, 104	" ; "	
7, 0, 510		$3n+r, 5n-r, 7n-r, 17n-r; 8n+5, 7$		8, 0, 585	$3n-r, 5n-r, 13n-r; 8n+1$	
10, 0, 357		" ; "		65, 0, 72	" ; "	
15, 0, 238		$3n+r, 5n-r, 7n+r, 17n+r; 8n+5, 7$	13, 0, 360	$3n+r, 5n-r, 13n+r; 8n+5$		
42, 0, 85		" ; "	40, 0, 117	" ; "		
21, 0, 170	$3n-r, 5n+r, 7n+r, 17n+r; 8n+5, 7$	-4810	1, 0, 4810	$5n+r, 13n+r, 37n+r; 8n+1, 3$		
30, 0, 119	" ; "		10, 0, 481	" ; "		
-3588	1, 0, 3588		$3n+r, 13n+r, 23n+r; 8n+1, 5$	26, 0, 185	" ; "	
	4, 0, 897		" ; "	65, 0, 74	" ; "	
	13, 0, 276		" ; "	2, 0, 2405	$5n-r, 13n-r, 37n-r; 8n+5, 7$	
	52, 0, 69		" ; "	5, 0, 962	" ; "	
	3, 0, 1196	$3n-r, 13n+r, 23n+r; 8n+3, 7$	13, 0, 370	" ; "		
	12, 0, 299	" ; "	37, 0, 130	" ; "		
	23, 0, 156	" ; "	-4830	1, 0, 4830	$3n+r, 5n+r, 7n+r, 23n+r; 8n+1, 7$	
	39, 0, 92	" ; "		46, 0, 105	" ; "	
	-3640	1, 0, 3640		$5n+r, 7n+r, 13n+r; 8n+1$	2, 0, 2415	$3n-r, 5n-r, 7n+r, 23n+r; 8n+1, 7$
		56, 0, 65		" ; "	23, 0, 210	" ; "
5, 0, 728		$5n-r, 7n-r, 13n-r; 8n+5$	3, 0, 1610	$3n-r, 5n-r, 7n-r, 23n+r; 8n+3, 5$		
13, 0, 280		" ; "	35, 0, 138	" ; "		
7, 0, 520		$5n-r, 7n+r, 13n-r; 8n+7$	5, 0, 966	$3n-r, 5n+r, 7n-r, 23n-r; 8n+3, 5$		
8, 0, 455		" ; "	21, 0, 230	" ; "		
35, 0, 104		$5n+r, 7n-r, 13n+r; 8n+3$	6, 0, 805	$3n+r, 5n+r, 7n-r, 23n+r; 8n+3, 5$		
40, 0, 91		" ; "	69, 0, 70	" ; "		
-4180		1, 0, 4180	$5n+r, 11n+r, 19n+r; 8n+1, 5$	7, 0, 690	$3n+r, 5n-r, 7n+r, 23n-r; 8n+1, 7$	
		4, 0, 1045	" ; "	15, 0, 322	" ; "	
	5, 0, 836	" ; "	10, 0, 483	$3n+r, 5n-r, 7n-r, 23n-r; 8n+3, 5$		
	20, 0, 209	" ; "	42, 0, 115	" ; "		
	11, 0, 380	$5n+r, 11n-r, 19n+r; 8n+3, 7$	14, 0, 345	$3n-r, 5n+r, 7n+r, 23n-r; 8n+1, 7$		
	19, 0, 220	" ; "	30, 0, 161	" ; "		
	44, 0, 95	" ; "	-5160	1, 0, 5160	$3n+r, 5n+r, 43n+r; 8n+1$	
	55, 0, 76	" ; "		40, 0, 129	" ; "	
	-4305	1, 0, 4305		$3n+r, 5n+r, 7n+r, 41n+r; 8n+1, 5$	3, 0, 1720	$3n+r, 5n-r, 43n-r; 8n+3$
		21, 0, 205		" ; "	43, 0, 120	" ; "

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-5160	5, 0, 1032	$3n-r, 5n-r, 43n-r; 8n+5$	-7140	5, 0, 1428	$3n-r, 5n-r, 7n-r, 17n-r; 8n+1, 5$
	8, 0, 645	" ; "		17, 0, 420	" ; "
	15, 0, 344	$3n-r, 5n+r, 43n+r; 8n+7$		20, 0, 357	" ; "
	24, 0, 215	" ; "		68, 0, 105	" ; "
-5460	1, 0, 5460	$3n+r, 5n+r, 7n+r, 13n+r; 8n+1, 5$	-8710	15, 0, 476	$3n-r, 5n+r, 7n+r, 17n+r; 8n+3, 7$
	4, 0, 1365	" ; "		35, 0, 204	" ; "
	3, 0, 1820	$3n-r, 5n-r, 7n-r, 13n+r; 8n+3, 7$		51, 0, 140	" ; "
	12, 0, 455	" ; "		60, 0, 119	" ; "
	5, 0, 1092	$3n-r, 5n-r, 7n-r, 13n-r; 8n+1, 5$	-11713	1, 0, 8710	$5n+r, 13n+r, 67n+r; 8n+1, 7$
	20, 0, 273	" ; "		10, 0, 871	" ; "
	7, 0, 780	$3n+r, 5n-r, 7n-r, 13n-r; 8n+3, 7$		26, 0, 335	" ; "
	28, 0, 195	" ; "		65, 0, 134	" ; "
	13, 0, 420	$3n+r, 5n-r, 7n-r, 13n+r; 8n+1, 5$	-13398	2, 0, 4355	$5n-r, 13n-r, 67n-r; 8n+3, 5$
	52, 0, 105	" ; "		5, 0, 1742	" ; "
	15, 0, 364	$3n+r, 5n+r, 7n+r, 13n-r; 8n+3, 7$		13, 0, 670	" ; "
	60, 0, 91	" ; "		67, 0, 130	" ; "
	21, 0, 260	$3n-r, 5n+r, 7n+r, 13n-r; 8n+1, 5$	-18860	1, 0, 11713	$13n+r, 17n+r, 53n+r; 8n+1, 5$
	65, 0, 84	" ; "		13, 0, 901	" ; "
	35, 0, 156	$3n-r, 5n+r, 7n+r, 13n+r; 8n+3, 7$		17, 0, 689	" ; "
	39, 0, 140	" ; "		53, 0, 221	" ; "
-6402	1, 0, 6402	$3n+r, 11n+r, 97n+r; 8n+1, 3$	-18860	1, 0, 13398	$3n+r, 7n+r, 11n+r, 29n+r; 8n+1, 7$
	3, 0, 2134	" ; "		22, 0, 609	" ; "
	22, 0, 291	" ; "		42, 0, 319	" ; "
	66, 0, 97	" ; "		58, 0, 231	" ; "
	2, 0, 3201	$3n-r, 11n-r, 97n+r; 8n+1, 3$		2, 0, 6699	$3n-r, 7n+r, 11n-r, 29n-r; 8n+3, 5$
	6, 0, 1067	" ; "		11, 0, 1218	" ; "
	11, 0, 582	" ; "		21, 0, 638	" ; "
	33, 0, 194	" ; "		29, 0, 462	" ; "
-6708	1, 0, 6708	$3n+r, 13n+r, 43n+r; 8n+1, 5$	-18860	3, 0, 4466	$3n-r, 7n-r, 11n+r, 29n-r; 8n+3, 5$
	4, 0, 1677	" ; "		14, 0, 957	" ; "
	13, 0, 516	" ; "		66, 0, 203	" ; "
	52, 0, 129	" ; "		77, 0, 174	" ; "
	3, 0, 2236	$3n+r, 13n+r, 43n-r; 8n+3, 7$		6, 0, 2233	$3n+r, 7n-r, 11n-r, 29n+r; 8n+1, 7$
	12, 0, 559	" ; "		7, 0, 1914	" ; "
	39, 0, 172	" ; "		33, 0, 406	" ; "
	43, 0, 156	" ; "		87, 0, 154	" ; "
-7137	1, 0, 7137	$3n+r, 13n+r, 61n+r; 8n+1, 5$	-18860	1, 0, 13860	$3n+r, 5n+r, 7n+r, 11n+r; 8n+1, 5$
	9, 0, 793	" ; "		4, 0, 3465	" ; "
	13, 0, 549	" ; "		9, 0, 1540	" ; "
	61, 0, 117	" ; "		36, 0, 385	" ; "
-7140	1, 0, 7140	$3n+r, 5n+r, 7n+r, 17n+r; 8n+1, 5$		5, 0, 2772	$3n-r, 5n-r, 7n-r, 11n+r; 8n+1, 5$
	4, 0, 1785	" ; "		20, 0, 693	" ; "
	21, 0, 340	" ; "		45, 0, 308	" ; "
	84, 0, 85	" ; "		77, 0, 180	" ; "
	3, 0, 2380	$3n+r, 5n-r, 7n-r, 17n-r; 8n+3, 7$		7, 0, 1980	$3n+r, 5n-r, 7n-r, 11n-r; 8n+3, 7$
	7, 0, 1020	" ; "		28, 0, 495	" ; "
	12, 0, 595	" ; "		55, 0, 252	" ; "
	28, 0, 255	" ; "		63, 0, 220	" ; "

D	Formen.	Charaktere.	D	Formen.	Charaktere.
—13860	11, 0, 1260 35, 0, 396 44, 0, 315 99, 0, 140	$3n-r, 5n+r, 7n+r, 11n-r; 8n+3, 7$ “ ; “ “ ; “ “ ; “	—46852	1, 0, 46852 4, 0, 11713 13, 0, 3604 17, 0, 2756	$13n+r, 17n+r, 53n+r; 8n+1, 5$ “ ; “ “ ; “ “ ; “
—17220	1, 0, 17220 4, 0, 4305 21, 0, 820 84, 0, 205 3, 0, 5740 7, 0, 2460 12, 0, 1435 28, 0, 615 5, 0, 3444 20, 0, 861 41, 0, 420 105, 0, 164 15, 0, 1148 35, 0, 492 60, 0, 287 123, 0, 140	$3n+r, 5n+r, 7n+r, 41n+r; 8n+1, 5$ “ ; “ “ ; “ “ ; “ $3n+r, 5n-r, 7n-r, 41n-r; 8n+3, 7$ “ ; “ “ ; “ “ ; “ $3n-r, 5n+r, 7n-r, 41n+r; 8n+1, 5$ “ ; “ “ ; “ “ ; “ $3n-r, 5n-r, 7n+r, 41n-r; 8n+3, 7$ “ ; “ “ ; “ “ ; “		52, 0, 901 53, 0, 884 68, 0, 689 212, 0, 221	“ ; “ “ ; “ “ ; “ “ ; “
—19240	1, 0, 19240 40, 0, 481 65, 0, 296 104, 0, 185 5, 0, 3848 8, 0, 2405 13, 0, 1480 37, 0, 520	$5n+r, 13n+r, 37n+r; 8n+1$ “ ; “ “ ; “ “ ; “ $5n-r, 13n-r, 37n-r; 8n+5$ “ ; “ “ ; “ “ ; “			
—19320	1, 0, 19320 105, 0, 184 3, 0, 6440 35, 0, 552 5, 0, 3864 21, 0, 920 7, 0, 2760 15, 0, 1288 8, 0, 2415 23, 0, 840 24, 0, 805 69, 0, 280 40, 0, 483 115, 0, 168 56, 0, 345 120, 0, 161	$3n+r, 5n+r, 7n+r, 23n+r; 8n+1$ “ ; “ $3n-r, 5n-r, 7n-r, 23n+r; 8n+3$ “ ; “ $3n-r, 5n+r, 7n-r, 23n-r; 8n+5$ “ ; “ $3n+r, 5n-r, 7n+r, 23n-r; 8n+7$ “ ; “ $3n-r, 5n-r, 7n+r, 23n+r; 8n+7$ “ ; “ $3n+r, 5n+r, 7n-r, 23n+r; 8n+5$ “ ; “ $3n+r, 5n-r, 7n-r, 23n-r; 8n+3$ “ ; “ $3n-r, 5n+r, 7n+r, 23n-r; 8n+1$ “ ; “			