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①

DIE WUNDERBARE WELT

①

der p-ADISCHEN ZAHLEN

„Die Welt aus den Augen einer Primzahl“

Bei den p-adischen
dem Komma unendlich
kommen, nach
nur endlich viele.

Zahlen dürfen vor
ich viele Ziffern
dem Komma aber

②

$$\begin{array}{r} \text{Rsp:} \dots\dots 6 \ 2 \ 9 \ 5 \ 1 \ 4 \ 1 \ 3 \\ + \dots\dots 6 \ 2 \ 9 \ 5 \ 1 \ 4 \ 1 \ 3 \\ \hline \dots\dots 2 \ 5 \ 9 \ 0 \ 2 \ 8 \ 2 \ 6 \end{array}$$

②

$$\begin{array}{r} \text{Rsp:} \dots\dots 8 \ 4 \ 7 \ 9 \ 3 \ 9 \ 1 \ 3 \\ + \dots\dots 9 \ 6 \ 0 \ 3 \ 2 \ 4 \ 5 \ 6 \\ \hline \dots\dots 8 \ 0 \ 8 \ 2 \ 6 \ 3 \ 6 \ 9 \end{array}$$

③ Ex: ... 999 999 9 = $\overline{9}$ ⑤

$$\begin{array}{r}
 \dots 999 \quad 999 \quad 9 = \overline{9} \\
 + \hspace{25em} 1 \\
 \hline
 \dots \overset{1}{0}\overset{1}{0}\overset{1}{0} \quad \overset{1}{0}\overset{1}{0}\overset{1}{0} = \overline{0} = 0
 \end{array}$$

Also: $-1 = \dots 9999 = \overline{9}$

(4)

$$\begin{array}{r}
 \text{Bsp.:} \quad \dots 88 \quad 888 \\
 + \\
 \hline
 \dots 88 \quad 850
 \end{array}$$

Also ist

$$\dots 888 \neq -2.$$

(4)

$$\begin{array}{r}
 \text{Bsp.:} \quad \dots 99998 \\
 + \\
 \hline
 \dots 11 \quad 11 \\
 \dots 0 \quad 000
 \end{array}$$

Also: $-2 =$

$\dots 99998$

⑤

⑤ -3 = ... 999 997

-4 = ... 999 996

-123 = ... 999 778

$$\begin{array}{r}
 \dots 999 \ 778 \\
 + \quad \quad 123 \\
 \hline
 \dots 999 \ 901
 \end{array}$$

-123 = ... 9 999 877

$$\begin{array}{r}
 \dots 9 \ 999 \ 877 \\
 + \quad 1 \ 111 \ 123 \\
 \hline
 \dots 0 \ 000 \ 000
 \end{array}$$

⑥

0	—	9
1	—	8
2	—	7
3	—	6
4	—	5
5	—	4
6	—	3
7	—	2
8	—	1
9	—	0

$$-57234 = \dots 99942766$$

$$+ \begin{array}{r} 57234 \\ \hline \end{array}$$

$$\dots 00000000$$

⑥

⑦

.... 629514 | 13

- 572 | 34

.... 628941 | 79

+ 572 | 34

629514 | 13

⑦

⑧

$$\begin{array}{r} \dots 62951413 \\ + \dots 99942766 \\ \hline \dots 62894179 \end{array}$$

1 1 1 1

FRAKTAL
 z^2+c

⑧

$$\textcircled{1} \quad 1:7 =$$

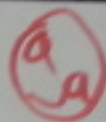
$$\begin{array}{r} \dots 21 \\ \hline \dots 9980 \\ - 28 \\ \hline \dots 9970 \\ - 7 \\ \hline \dots 990 \\ - 49 \\ \hline \dots 9950 \\ - 55 \\ \hline \dots 9960 \\ - 56 \\ \hline \dots 9948 \end{array}$$

$$\begin{array}{r} \dots 9999 \\ \hline \dots 14 \\ \hline \dots 9998 \end{array}$$

$$\overline{2857143}$$

also: $1:7 = \dots 142857142857143$

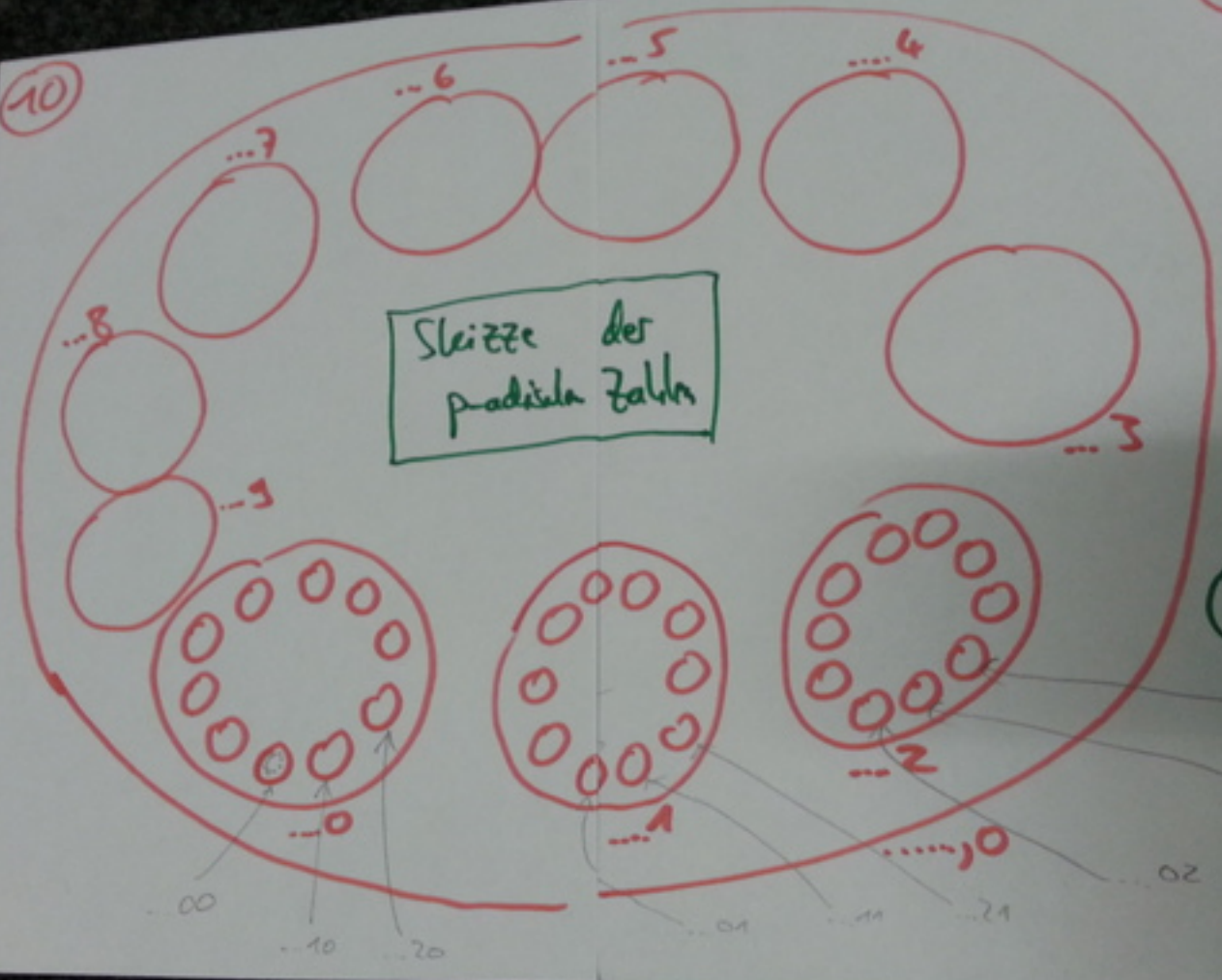
$$\begin{array}{r} 0001 \\ - 0021 \\ \hline \dots 99980 \end{array}$$



10

10

Skizze der
radialen Zahn



p=10

00

10

20

01

11

21

02

12

22

11

$$\heartsuit = \dots 890625$$

11

$$\heartsuit \cdot \heartsuit = \heartsuit$$

obwohl $\heartsuit \neq 0$ und $\heartsuit \neq 1$

⑫ jetzt wieder normale

$$\begin{array}{r} 567 \\ - 425 \\ \hline 142 \end{array}$$

$$\begin{array}{r} \overset{10}{913} \\ - 547 \\ \hline 366 \end{array}$$

Zahlen

⑫

mit Trick:

$$\begin{array}{r} 567 \\ + \cancel{594} \\ \hline 1141 \\ + \quad 1 \\ \hline 1142 \end{array}$$

jede Ziffer
durch
Spezifika
getauscht

$$\begin{array}{r} 913 \\ + 452 \\ \hline 1365 \\ + \quad 1 \\ \hline 1366 \end{array}$$

$$5:3 =$$

$$\begin{array}{r} 155 \\ \hline 99990 \\ 9 \end{array}$$

$$\begin{array}{r} 99990 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 99990 \\ \hline 9 \end{array}$$

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$$\begin{array}{r} 99990 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 99990 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 333333335 \\ \hline 35 \end{array}$$

~~000005~~

- 15

.....999990

