I $10\,000 = K \cdot 1000\,000^{b}$

II $3\,000 = K \cdot 100\,000^{b}$

I $\log(10\,000) = \log(K \cdot 1000\,000^{b})$

$4 = \log(K) + \log(1000\,000^{b})$

$4 = \log(K) + 6b$

$b = \frac{4 - \log(K)}{6}$

b in

II $\log(3000) = \log(K \cdot 100\,000^{b})$

$\log(3) + \log(1000) = \log(K) + 5b$

$\log(3) + 3 = \log(K) + 5b$

$\log(3) + 3 = \log(K) + 5\left(\frac{4 - \log(K)}{6}\right)$

$\log(3) + 3 = \log(K) + \frac{20 - 5\log(K)}{6}$ $\cdot 6$

$6(\log(3) + 3) = 6\log(K) + 20 - 5\log(K)$ -20

$6(\log(3) + 3) - 20 = \log(K)$

$0.862 = \log(K)$

$10^{0.862} = K$

$K = 7.289$ $\qquad b = \frac{4 - \log(7.289)}{6}$

$b = 0.523$

$K \cdot 1000\,000^{b} = 7.289 \cdot 1000\,000^{0.523} = 10\,015$

$K \cdot 100\,000^{b} = 7.289 \cdot 100\,000^{0.523} = 3003$

$M = K \cdot 100\,000\,000^{b}$

$= 2.289 \cdot 100\,000\,000^{0.523} = 111\,344$ Wörter

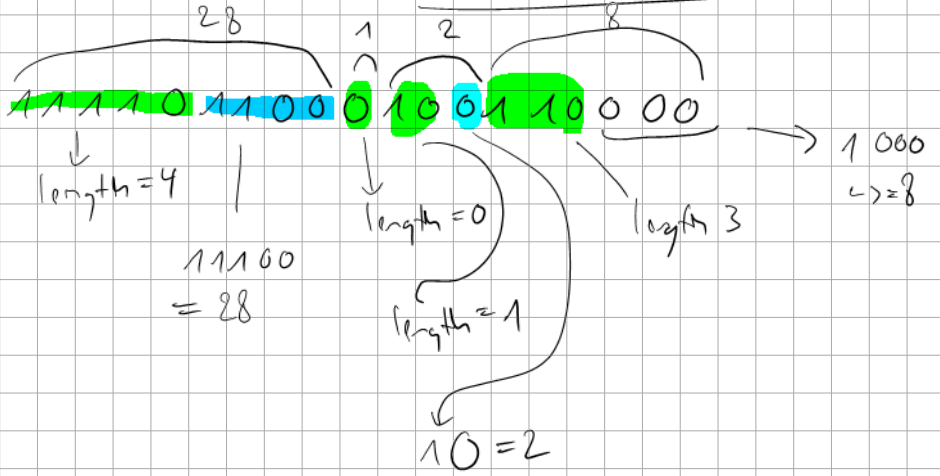
4) VB for 216

0	0	0	0	0	0	0	1	1	1	0	1	1	0	0	0

Gamma code for 216

dec	binary	offset	length
216	11011000	1011000	1111 1110

↳ gamma code 1111 1110 1011 000



8)

28, 0, 2, 8

↳ 28, 29, 31, 39