$\sqrt{2} = 1,4142\ldots$

$$ax^2 + bx + c = 0$$

$$\frac{-b \pm \sqrt{\Delta}}{2a}$$

Logarithmes

$10^2 = 0,1$

$\cdot 1,1$

$\log_{1,1} 2 \iff 1,1^t = 2$

t

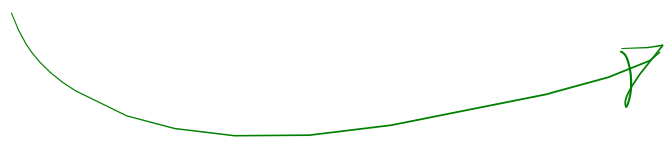
$\frac{LN\ 2}{LN\ 1,1}$

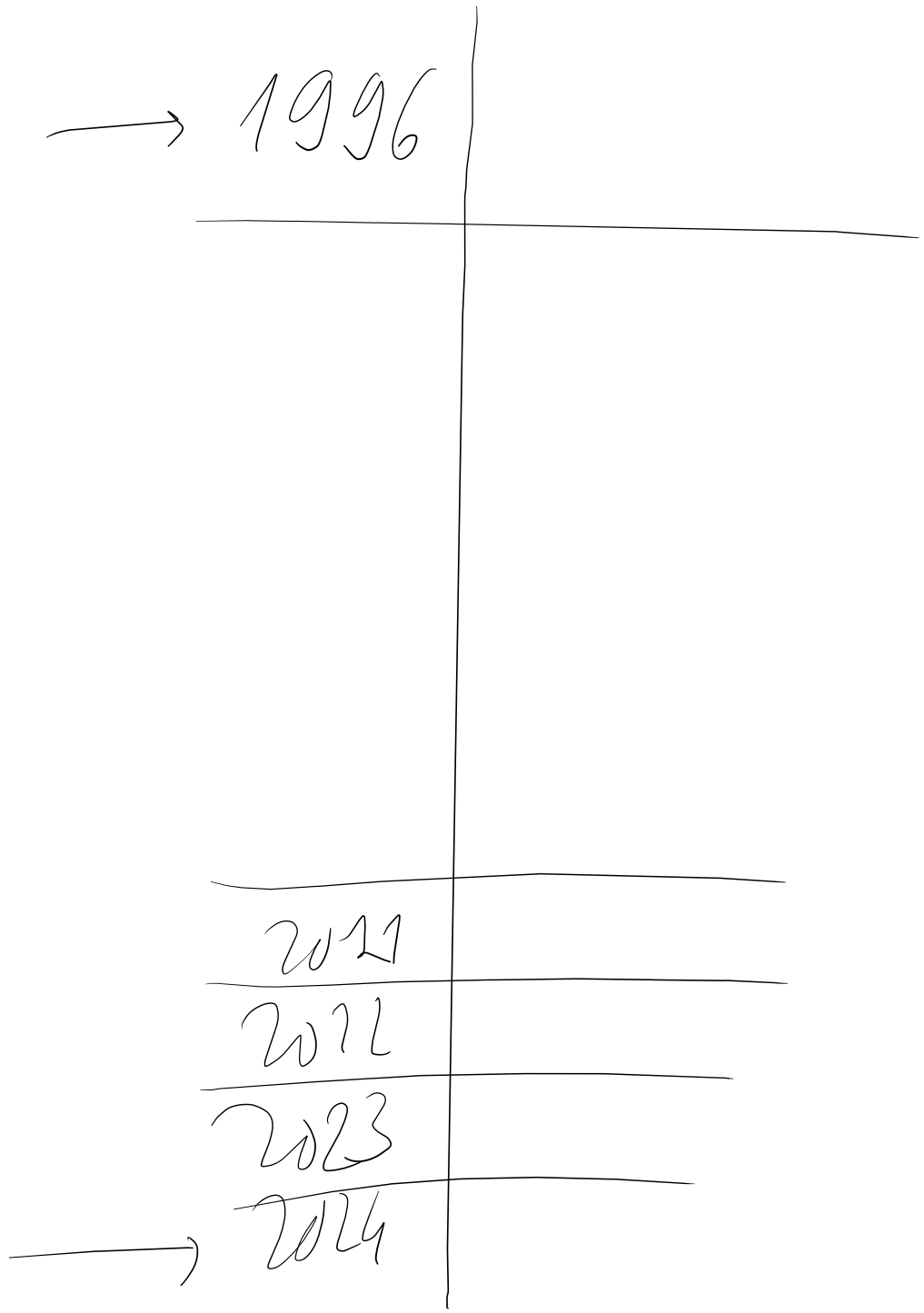
2023

2024

400

440




1996
2021
2022
2023
2024

$$x = \log_a b \iff a^x = b$$

$\log_{10} 100 = 2$

$10^2 = 100$

$\log_{1,1} 2 \simeq 7$

$1,1^t = 2$

$$\log_2 6 = \frac{\ln 6}{\ln 2} = \frac{\log_{10} 6}{\log_{10} 2}$$

1 2nd e^x LN

e^x 10^x

$e \approx 2,72$

$$\ln(x) = \log_{2,718281\ldots} x = \log_e x$$

$$\log(x) = \log_{10} x$$

$$\log_{243}\left(\frac{1}{243^{1}}\right) = \log_{243}\left(243^{-1}\right) = -1$$

$$2^{-n} = \frac{1}{2^{n}}$$

$$\log_{\frac{1}{8}}(64) = \log_{\frac{1}{8}} 8^2 = \log_{8^{-1}} 8^2$$

$$= \log_{\frac{1}{8}} \left(\frac{1}{8}\right)^{-2}$$

1.2.3

$$\log(x \cdot y) = \log x + \log y$$

$$\log(x^r) = r \log(x)$$

$$\log(\sqrt{x}) = \log(x^{\frac{1}{2}}) = \frac{1}{2}\log(x)$$

$$\log_2(2^n) = n$$

$$\log_5 125 = \log_5(5^3)$$

$$= 3$$

$$\ln(e^2) = \log_e e^2 = 2$$