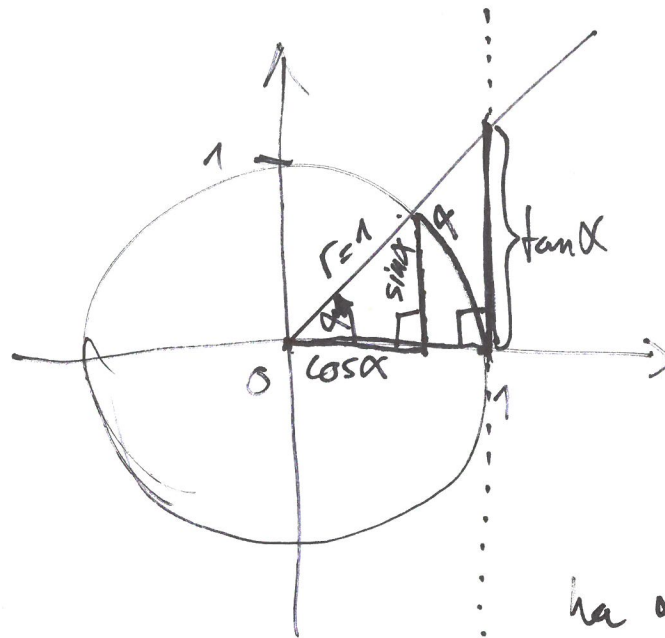


$$3 \times 10^8 \frac{m}{s}$$

$$3 \times 10^8$$

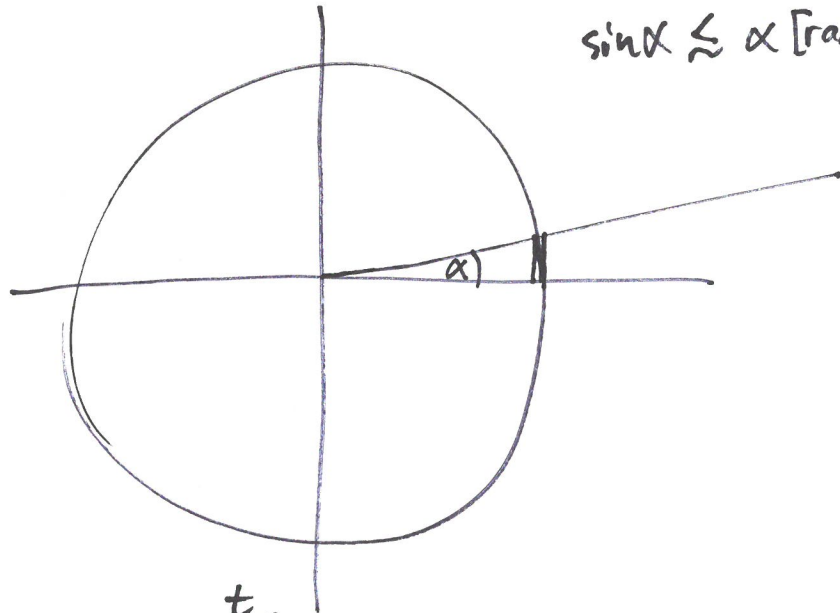
$$3E8$$

$$\tan \alpha = \frac{\sin \alpha}{\cos \alpha}$$



$$\text{for } \alpha < 10^\circ$$

$$\sin \alpha \approx \alpha [\text{rad}] \approx \tan \alpha$$

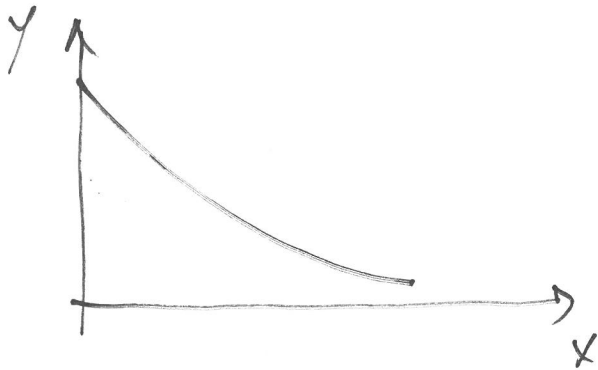


Exp. fr.:

$$\text{actualis sejtra} = 1 \times \overbrace{2 \times 2 \times \dots \times 2}^{n = \frac{t}{20 \text{ min}}} = 1 \times 2^{\frac{t}{20 \text{ min}}}$$

$$\frac{1}{a^x} = a^{-x}$$

Exp. fu. linearizálása



$$y = y_0 \cdot e^{-px}$$

$$\log(y) = \log(y_0 \cdot e^{-px})$$

$$\log(y) = \log(y_0) + \log(e^{-px})$$

$$\log(y) = \log(y_0) - p \cdot x \cdot \log(e)$$

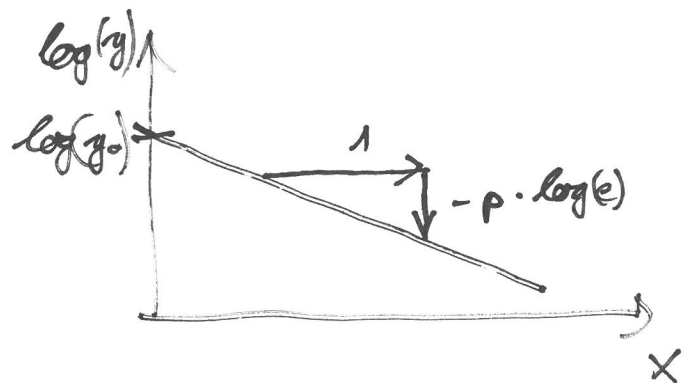
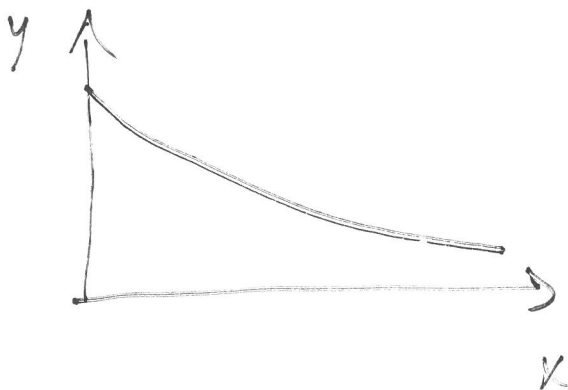
$$\log(y) = -p \cdot \log(e) \cdot x + \log(y_0)$$

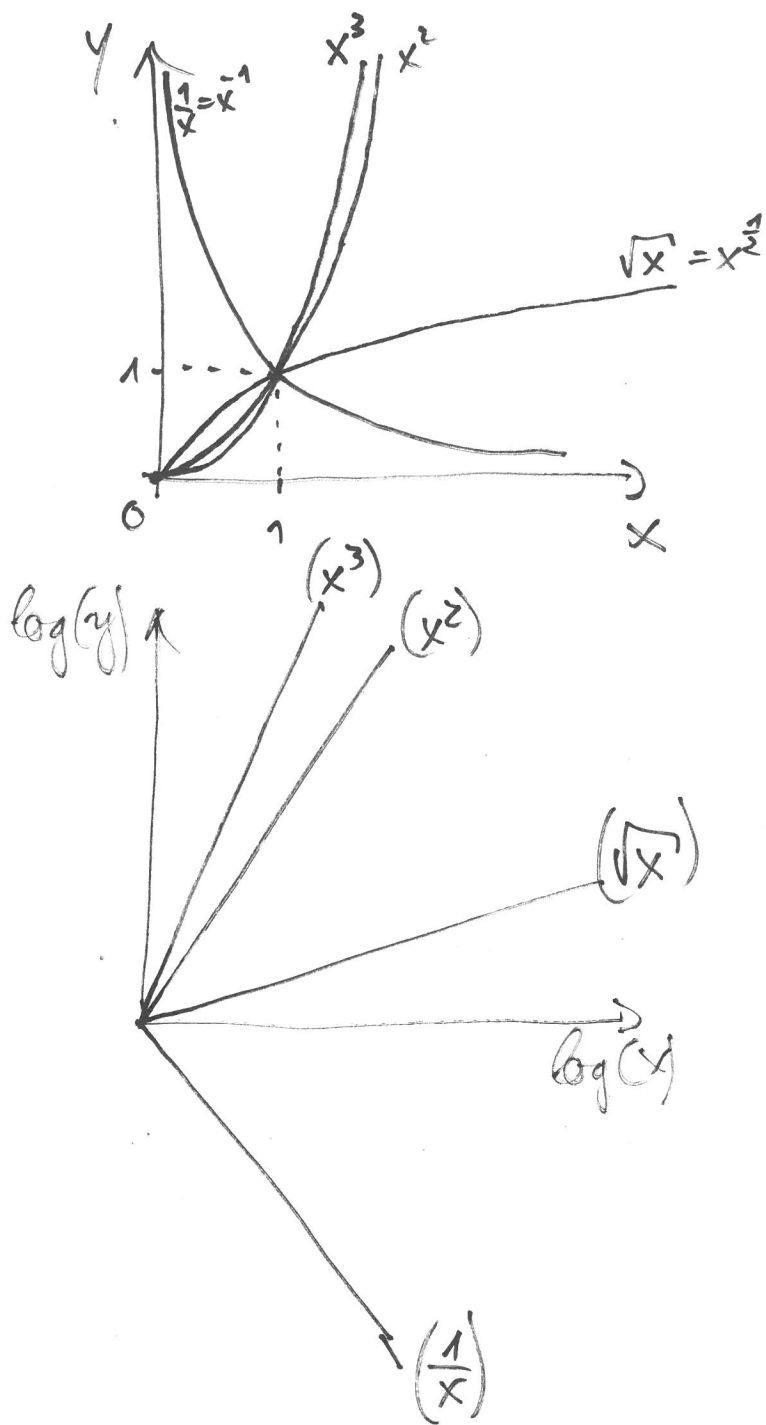
$$\begin{array}{ccccccc} \updownarrow & & \updownarrow & & \updownarrow & & \updownarrow \\ y & = & a & \cdot x & + & b \end{array}$$



$$\log(ab) = \log(a) + \log(b)$$

$$\log(a^x) = x \cdot \log(a)$$





$$y = b \cdot x^a$$

$$\log(y) = \log(bx^a)$$

$$\log(b) + \log(x^a)$$

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