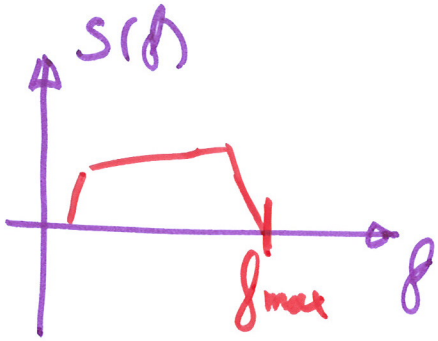


$n \equiv n \cdot \Delta t$

$f = \frac{1}{T}$ $f_s = \frac{1}{\Delta t}$

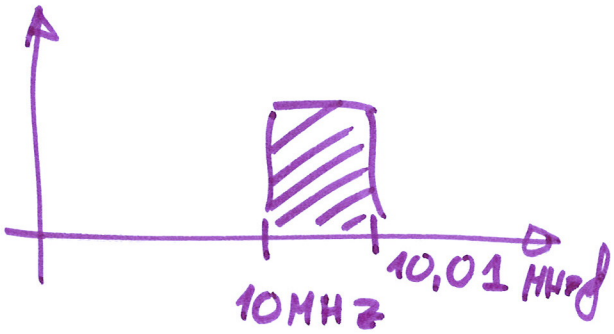
$\Delta t \leq \frac{1}{2 \cdot f_{max}}$

$\boxed{f_s \geq 2 \cdot f_{max}}$

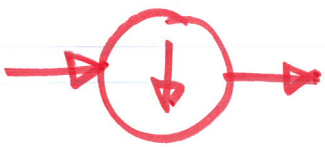
300 ... 3200 Hz

$f_{max} = 3{,}2$ kHz

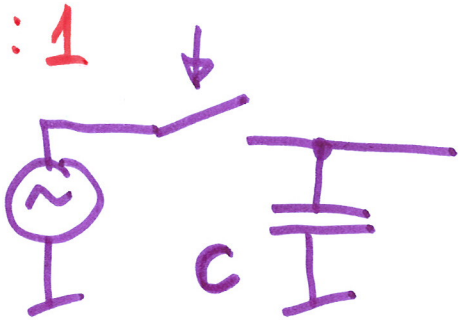
$f_s = 8{,}000$ kHz



PEITSIMEERIMINE



N:1



$f_s \geq 2 \cdot B$ ALADISKREETIMINE

$f_{max} = 0{,}2$ Hz

$f_s = 1$ Hz

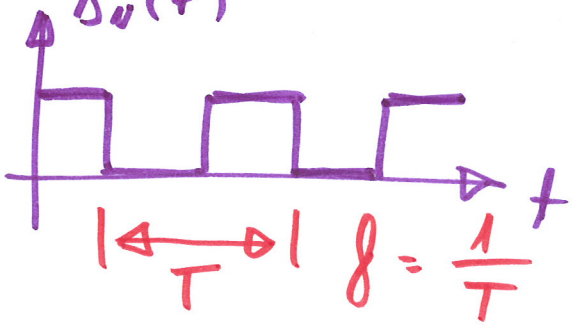
$1 \geq 2 \cdot 0{,}2$

$f_{max} = 1{,}2$ s

$1 \geq 2 \cdot 1{,}2$ s ?

$1 \geq 2{,}4$ s ?

- KVANTIMINE



$q = 1\,mm \quad \pm \frac{q}{2} \pm 0{,}5\,mm$

$\log_2(M) = \log_2(201) = 7{,}65 \approx 8\,bitt$

$\Pi = 8000 \cdot 8 = 64\,kbitt/s$

$f_A = 41\,kHz$

$n = 2$

$n_B = 16\,bitti$

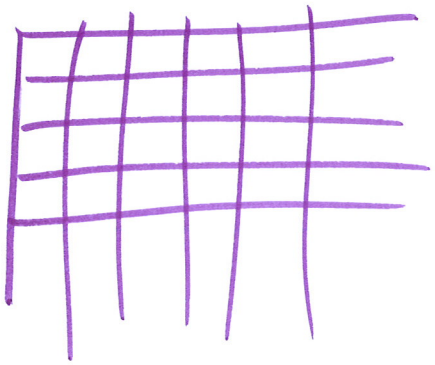
$M = 2 \cdot 41000 \cdot 16 = 1{,}312\,Mbitt/s \approx 164\,kB/s$

$\frac{(10^{-3})^2}{12} = \frac{10^{-6}}{12} \approx 10^{-7}$

0 ... 500 256

$1920 \times 1080 = 2.073.600 \cdot 3 =$

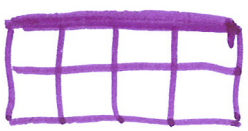
$= 6{,}2208\,MB$

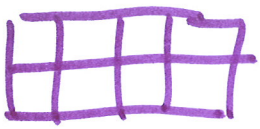


$150\,MB/s$

$1200\,Mbitt/s$

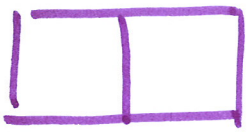
$J = 4$



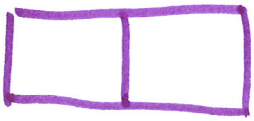


y 8 ~~tükk~~ pikkust

24 B
↓
12 B



C_B 2 pikkust



C_R 2 pikkust

$$\log a^b = b \cdot \log a$$

$$P = \frac{U^2}{R}$$

$$\frac{P_1}{P_2} = \frac{U_1^2}{U_2^2} = \left(\frac{U_1}{U_2}\right)^2$$

$$10 \cdot \log\left(\frac{U_1}{U_2}\right)^2 = 20 \log \frac{U_1}{U_2}$$

MODAALNE DISPERSIOON