Tele com exercices

Ex 1 1) 8 MHz 1 mot en 256 niveaux -> 8 bit debit binaire

D = nb signal \times nb de bit \times frequence d'échantillonage = $1 \times 8 \times 8 \cdot 10^6 = 64 \cdot 10^6 \text{ b/s} = 64 \text{ Hb/s}$

2) D= 1 · 4 · 8 106 = 32 Mb/s

 $\frac{E \times 2}{L \times 2}$ 1) 450 px × 500 px · 5 · 30 = 3375 · 10⁴ = 34 · 10⁶ b/s = 34 Mb/s

2) $C = B_p \cdot lb(1 + SNR) = 10 \cdot 10^9 \cdot lb(1 + 15) = 10 \cdot 10^9 \cdot l = 10 \cdot 10^$

$$E_{x3}$$
 $C = B_{p} \cdot 1b(1 + snp(-)) = 20,000 dB = 10 log(SNR) = 20,000 dB$

Ex4 22.103 Hz 166 hs 2 can

1) 22.103.16.2.60= 42260.103 = 42.106 b = 42 Mb

2) 42. 2 = 84 Mb

3) SNR = 26 dB 45 mm video

SNR = 10. log(216) = 77

C = 22.103. 1b(1+77)= 138.103 b/s = 138 Kb/s

Sur 32 bit: 84 Mb. 45.60 = 216.103 = 216 kb

216 kb = 1,65