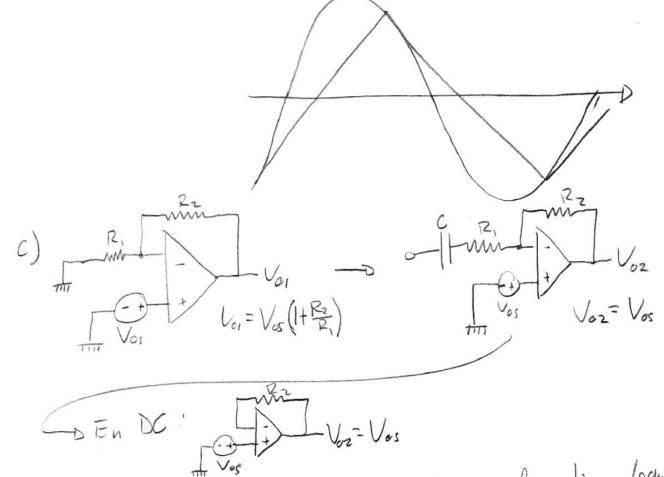
Examen partiel 2019

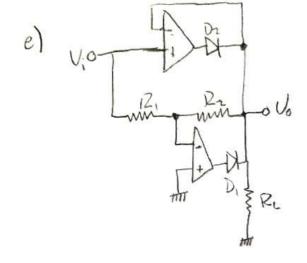
- a) 1-L(N)=0, L(jwo)= A(jwo) f(jwo)=1 =D Re[L(jwo)]=1 et Im[L(jwo)]=0
- 6) SR = 5V/us, Vomax=10V fm < 5R = 79,5 KHZ



Bloc 3 est un additionneur

Bloc 4 est en configuration exponentielle

Le circuit est un multiplicateur



3,
$$R_1 = R_2 = R_A = R$$

 $C_1 = C_2 = C$

$$R_1 = R_2 = R_A = R$$

$$C_1 = C_2 = C$$

$$aR_1 = R_1(1-a) = R_2$$

$$aR_2 = R_3$$

$$R_4 = R_4$$

$$R_4 = R_4$$

$$R_4 = R_4$$

$$T(3) = \frac{\alpha k \cdot 1/2^2 C^2}{3^2 + 3 \left[\frac{1}{R} + \frac{1}{R} (2 - K) \right] \frac{1}{C} + \frac{1}{R^2 C^2}}$$

$$= \frac{\alpha k \cdot 1/2^2 C^2}{3^2 + 3 (3 - K) \cdot \frac{1}{R^2} + \frac{1}{R^2 C^2}}$$

$$E = \sqrt{10^{4} \text{max}/16} = 0,5088$$

$$A(jw_s) = |0| \log |1 + e^2(w_s/w_s)|^{24} > A_{min}$$

$$S: N = 2 - h A(jw_s) = |2,410 dB| > 20 dB$$

$$N = 3 - v A(jw_s) = |2,410 dB| > 20 dB$$

$$Polynome invitation: S = 8 w_0 = 0$$

$$(1+2hw_0)(1+2hw_0 + 2hw_0)(1+2hw_0 + 2hw_0 + 2hw_0 + 2hw_0)(1+2hw_0 + 2hw_0)(1+2hw_0 + 2hw_0)(1+2hw_0 + 2hw_0 + 2hw_0)(1+2hw_0 + 2hw_0)$$

 $(x+1) \qquad (x+1)$

1

Questian 2. a) 2m = 8 b) TRNC 2 20 log Ad Form SNR. = SNR: + TRMC 20 log 10.10.005V = 20 log 0,05 + TRMC TRue = 5\$ds + 32ds = 86 ds. Vo, 2 -0,5/2 cas 2 wfit + 2,0 cas 2 wfit Vor= 0,5/2 cas 201fit + 2,0 cos 201fit * vo = -5 cos 201 f, t + 0,02 cos 211 fet. d) TRMe = relog Ad - Ad = (100V/D)

TRMe = 80 db. 100

Acn = 80 Ax = +x10-4 1/V 0,01 1/V

(20) f is f and f = 60 ds f and f = 60 ds f = 0,01 V/V