

+

-

+

-

*a*

*b*

*b*

*a*

*b*

*Ve*

*Vs*

*F=50Hz, R=100Ω , C=2200µF*

*Av*

*Ve*

*Vs*

*RL*

*Vi=AvVe*

*Zs= 8K*

*Ze*

*Ve*

Vs

*Vg=10mV*

*Zg=100 Ω*

*RL*

*Générateur*

*Amplificateur*

*Charge*

*Vi = AvVe*

*Zs*

*Ze*

*Ve*

*Vg*

*Zg*

*RL*

*Générateur*

*Amplificateur*

*Charge*

Vs

*Vcc=12V*

*Rc=8k*

*E*

*B*

*C*

*E*

*B*

*C*

*Vs*

*RB*

*RL*

*1K*

*VS1*

*RB1*

*RB2*

*270k*

*36k*

*300k*

*RE*

*1k*

*β =200*

*β =200*

*10mV*

*100Ω*

*RE*

*560Ω*

*0*

*1*

*2*

*4*

*3*

*5*

*6*

*7*

8

*9*

*10*

*to*

*τ*

2/3ΔV

ΔV

*t2*

*t1*

***Ve***

***Vs***

*0*

*1*

*2*

*4*

*3*

*5*

*6*

*7*

8

*9*

*10*

*to*

*τ*

⅔ ΔV

ΔV

*t2*

*t1*

*-5*

*-4*

*-2*

*-3*

*-1*

*τ*

*Continuité mathématique*

⅔ ΔV

⅓ΔV

*τ*

⅓ ΔV

⅔ ΔV

**E1**

**E2**

*1 ms*

*0*

*2*

*4*

*6*

8

*10*

*-4*

*-2*

*-6*

*-8*

*-10*

*-12*

*-14*

*τ*

*1 ms*

***Ve***

***Vs***

**E1**

**E2**

**E3**

**E5**

**E4**

*to*

*t1*

*t2*

*0*

*2*

*4*

*6*

8

*10*

*to*

*t1*

***E***

*τ=60µs*

*100 µs*

***Vs***

***Veq***

*0*

*2*

*6*

*12*

*10*

8

*14*

*-2*

*-4*

*to*

*t1*

*τ=75µs*

*100 µs*

**E1**

**E2**

**E3**

*3.75*

***Ve***

***Vs***

*continuité mathématique*

***+***

***-***

***Ve***

***Vs***

***R2***

***R1***

***i***

***i***

***=0***

*source*

*Charge*

*Av2*

*f02*

*Av1*

*f01*

+

-

*1K*

*ve*

*10K*

+

-

*1K*

*100K*

*vs*

gain 11 (20.8 dB) f0 = 326KHz

gain 101 (40.1 dB) f0 = 34.1kKHz

gain 1111 (60.9 dB) f0 = 34.1kKHz

+

-

*v*

*s*

*C*

*v*

*e*

*R*

*Rf*

+

-

*v*

*s*

*100n*

*v*

*e*

*3k*

*100k*

*1 ms*

*-10*

Ve

10

Vs

8

-8

6

4

2

0

-2

-4

-6

+

-

*Vs*

*Ve*

*100k*

*100nF*

*100nF*

*3k*

*3k*

*1 ms*

*-10*

Ve

10

Vs

8

-8

6

4

2

0

-2

-4

-6