Minitest #1 Automne 2004

Corrige:

Question #1

a) O = NOIR

I point ou O

I BRUN

2 ROUGE

3 ORANGE

Maximp

Dubois

4 JAUNE "

6 BLEU

7 VIOLET "

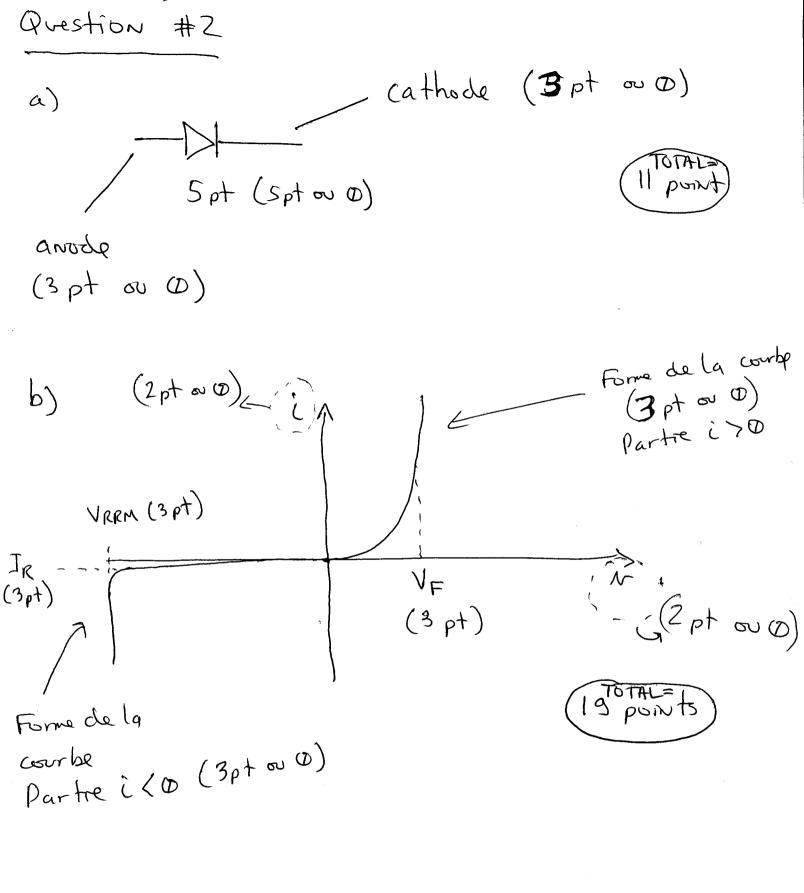
8 GRIS ...

9 BLANC

b)

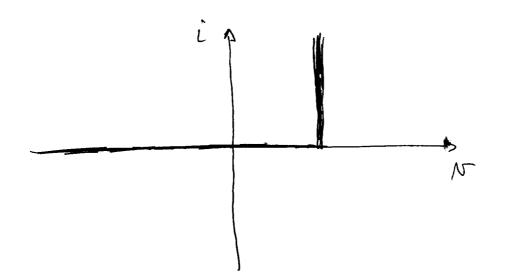
560 KSL 5pt (Spt ou 0)

+- 5% Spt (Spt ou 0)



Question #2 (suite)

c)



(5 pt on 0)

d)

 $V_F = 0.6 V$ , 0.7 V ou 0.8 Vsout acceptes

(5 pt ou 0)

Question #3

a) Positif

(3 pt ou 0)

*b*)

5 pt expression mathematique.

IRE 10V - 0,3V - 5,1V 10 ks

IRES = 460 MA = 0,46 MA

7 pt ou 0

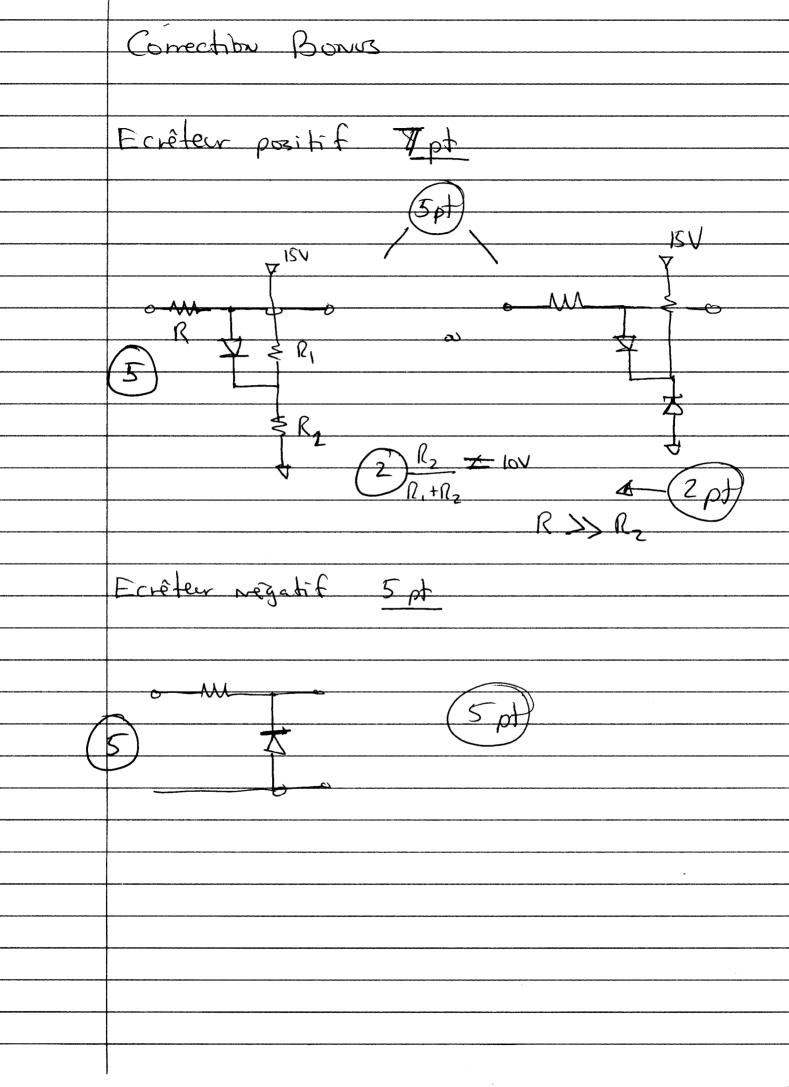
= 0,138 mW = 138 MW C) PD2 = 0,3 V · 0,46 MA (5 pt 000)

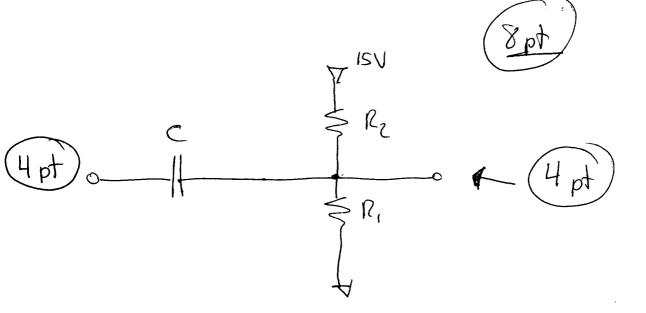
= 2,346 mW = (5pt ov 0) POL = 5,1V . O,46mA

 $P_{Res} = 10 \text{ ksl.} (0.46 \text{ mA})^2 = \frac{(4.6 \text{ V})^2}{10 \text{ ksl.}} = \frac{2.116 \text{ mW}}{5 \text{ pt ou } \Omega}$ 

d)  $V_s = 5.4V (4 pt) a 0)$ 

e) Ven < 5,4V (3pt ov 0)





3) 
$$f_c = \frac{1}{2\pi C R_1 I R_2}$$
 < 1 hHz

$$\frac{R_1}{R_1+R_2} = \frac{10}{15}$$