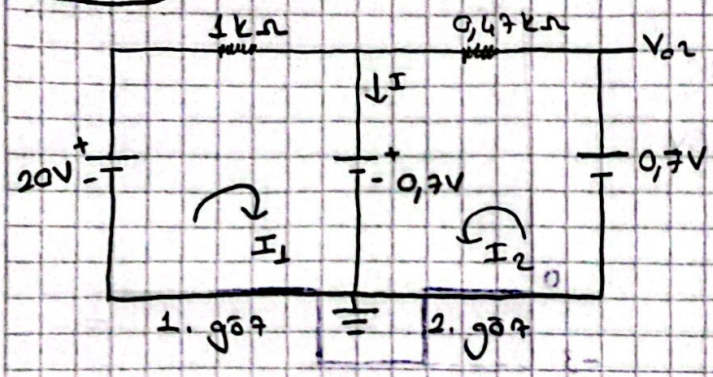
İlhami Yılmaz
22441024

Soru 1



$V_{o1} = 0,7V$

$V_{o2} = 0,7V$

1 göz

$-20 + (I_1 \times 1k) + 0,7 = 0$

$I_1 = \frac{19,3}{1k} = 19,3mA$

2. göz

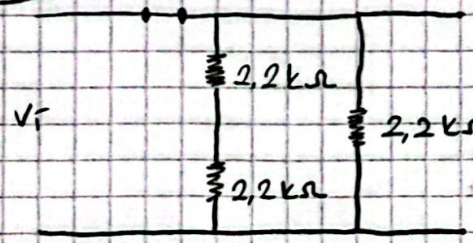
$-0,7 + (I_2 \times 0,47) + 0,7 = 0$

$I_2 \times 0,47 = 0$

$I_2 = 0$

$I = I_1 + I_2 = 19,3mA + 0mA = 19,3mA$

Soru 2



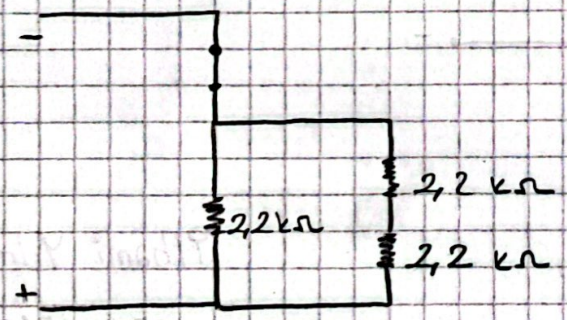
Pozitif Yarım Dalga

$V_{o\,max} = \frac{2,2k\Omega}{2,2k\Omega + 2,2k\Omega}$

$= \frac{1}{2}(V_{i\,max})$

$= \frac{1}{2}.100$

$= 50V$

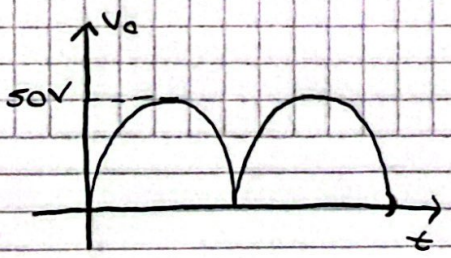


$V_{o\,max} = \frac{2,2k\Omega}{2,2k\Omega + 2,2k\Omega}$

$= \frac{1}{2}(V_{i\,max})$

$= \frac{1}{2}.100$

$= 50V$



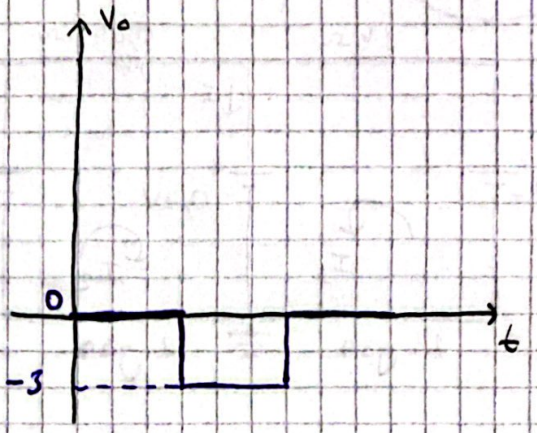
$V_{dc} = 0,636V = 0,636(50V)$

$= 31,8V$

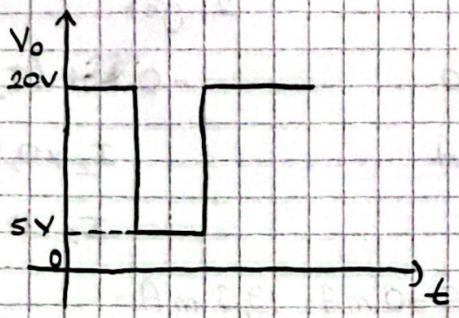
Soru 3 - A)

$\Rightarrow -5V + 2V - V_o = 0$

$V_o = -3V$

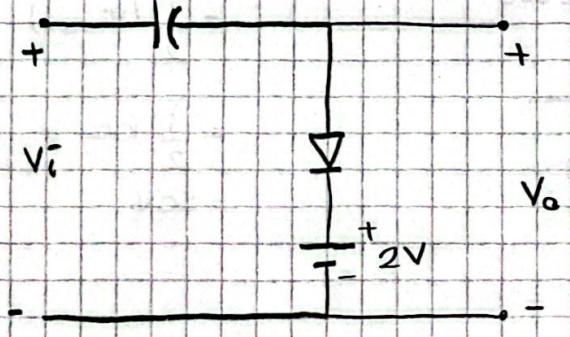


B)



$\Rightarrow V_o = 5V$

Soru-4)



Yılhami Yılmaz

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