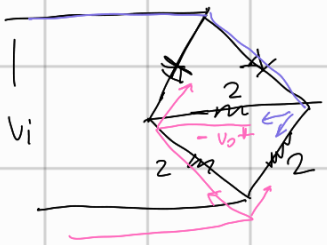
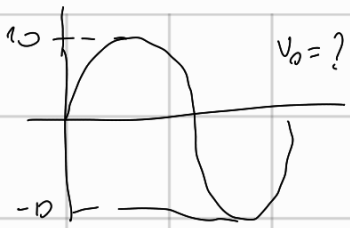
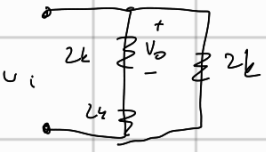
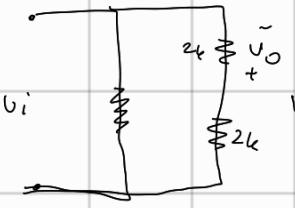


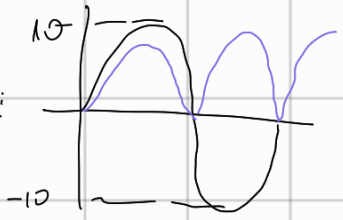




$V_o = \frac{v_i}{2}$



$V_o = \frac{-v_i}{2}$



$$= \frac{1}{T}\left(\frac{-8}{2\pi} \cos\omega t \Big|_0^{\pi/2} + \frac{4}{2\pi} \cos\omega t \Big|_{\pi/2}^{\pi} \right) =$$

$v_D = -v_i - 5V$

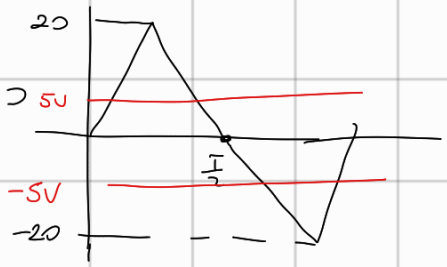
$-v_i + v_R - v_D - 5V = 0$

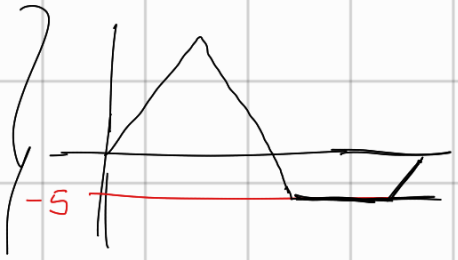
$-v_i - 5V \geq 0$

$-5V \geq v_i$

$v_o + 5V + v_D = 0$

$v_o = -5V$





tlama

$-v_i + v_R + v_o = 0$

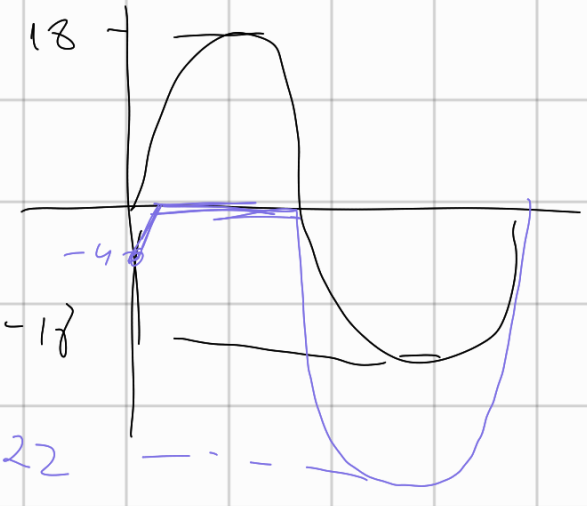
$v_i = v_o$

$V_i = 4 - v_D + v_{12}$

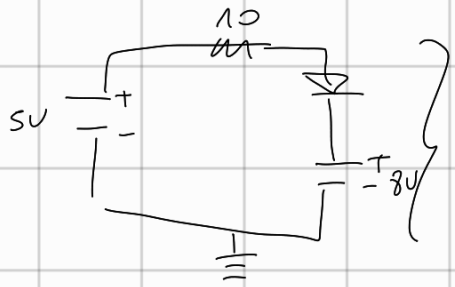
$v_D = 4 - v_i \geq 0$

$v_i \leq 4 \qquad v_o = -4 + v_i$

tlama $v_o = 0$



Karar verecegin acik
digerleri kisa

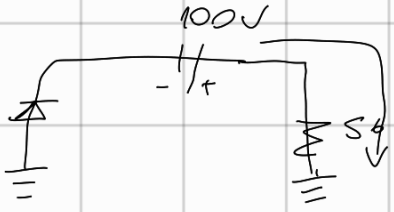


Tikama oldugunu
nasil anladik

$-5V + V_R + V_D + 8V = 0$

$V_D = -8V + 5V + V_R$

$-3 \leq 0$ tikama



$-V_R + 100 - V_D = 0$

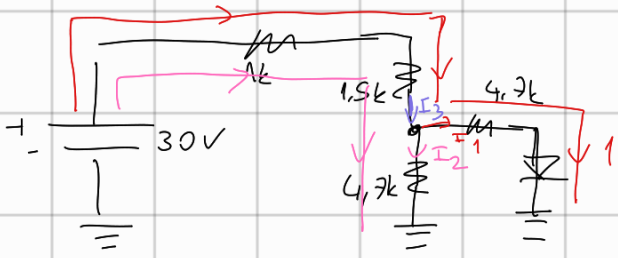
$V_D = 100 - V_R$

$V_R = 100$

$V_D = 0$

$I_D = \frac{100}{56}$ A

Silisyum dese 99,3 olurdu



$-30 + 1kI_2 + 1,5kI_2 + 4,7k(I_2 - I_1) = 0$

$-30 + 1kI_1 + 1,5kI_1 + 4,7k(I_1 - I_2) + V_D = 0$ $\quad V_D = 30 \geq 0$

$4,7(I_2 - I_1) + 4,7I_2 = 0$

$2I_2 = I_1$

$I_3 = I_1 + I_2$

$4,7kI_2 + \quad = 30 \quad I_2 = \frac{30}{4,7k} \quad V_{R1} = \frac{68}{9,7}$

$-30V + 1kI_3 + 1,5kI_3 + 4,7kI_1 + V_D = 0$ $\quad V_D = 30 \geq 0$ iletim

$2,5kI_3 + 4,7kI_1 = 30V$

$I_3 = 2I_1$

$-30V + 1kI_3 + 1,5kI_3 + 4,7kI_2 = 0$

$4,7kI_1 = 4,7kI_2$

$I_1 = I_2$

$I_3 = 2I_1$

$2,5kI_3 + 4,7kI_2 = 30V$

$9,7kI_1$

$5k + 4,7kI_1 = 30V$

$I_1 = \frac{30}{9,7}$