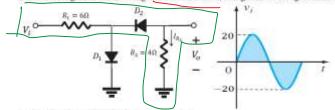
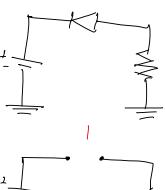
V-0

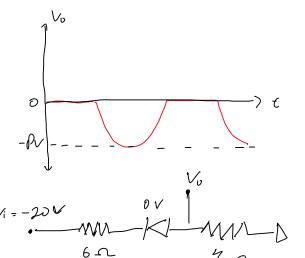
Soal 1: [25 poin]
Diketahui rangkaian berikut dengan D1 dan D2 ideal, dan grafik Vi sebagai berikut.



a. Gambarkan grafik gelombang output $(V_o)!$ b. Hitung nilai tegangan output (V_o) dan arus pada R2 (I_{R2}) saat nilai $V_i = -5 \ V!$

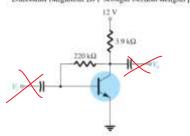


0,



$$\underline{\Gamma} = \frac{-20 - 0}{6 + 9} = -2A$$

b.
$$V_{1}=-5V + 6\Omega$$
 $V_{1}=-5V + 6\Omega$
 $V_{2}=-5V + 6\Omega$
 $V_{3}=-5V + 6\Omega$
 $V_{4}=-5V + 6\Omega$
 $V_{5}=-5V + 6\Omega$
 $V_{6}=-5V + 6\Omega$
 $V_{7}=-5V + 6\Omega$
 $V_{7}=-$



a. Hitung nilai arus di base, emitter, dan collector! Hitung nilai tegangan Vcz !

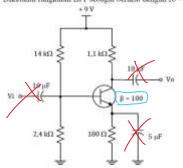


11,3 =
$$(120.5.9 \times \omega^{3} + 120 \times \omega^{3})$$
 Γ_{B}
11,3 = $(6PP \times \omega^{3})$ Γ_{B}

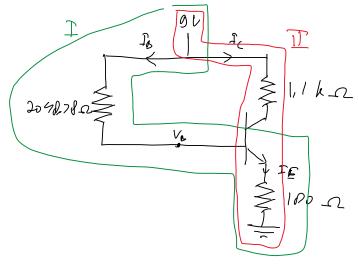
$$T_{c}^{1} = \beta T_{B} = 120.(6, 42 \mu B)$$

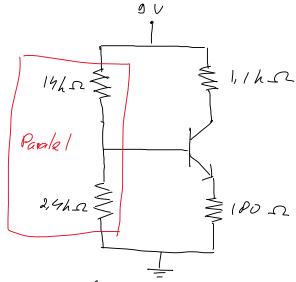
$$= 1,99 m B$$

Diketahui rangkaian BJT sebagai berikut dengan ro = &



- A. Hirung nilai Iz dan nilai r.*!
 Hirung Z. Z., dan penguatan yang terjadi pada rangkaian diatas*
 Hirung fiekuensi cut-off rendalmya.*





$$V_{s} = \frac{2.9}{14+2.9}9 = 1.32 V$$

Lop I: