During the positive half of the sine wave, Q_2 is approx. an open circuit.

Consider the simplified circuit: Vont (peak) \approx Vcc Vin = Vcc = Vcc = Vcc = Vin = Vcc =To wt Vcc - Vcc 1 [- cos x] T - RL 2TT] 0 - VCC Re conducts in a symmetrical way so its DC current is also IDC2 = VCC.

TTRL :. Total DC Paver Poc = Va (Ioc1 + Ioc2)
- 2Vac
- TTRL

(b) Vout is a sine wave with RMS value
$$\frac{Vcc}{\sqrt{z}}$$
.

PAC = $\left(\frac{Vcc}{\sqrt{z}}\right)^2 \frac{1}{R_L} = \frac{Vcc}{zR_L}$

(c)
$$\eta = \frac{P_{AC}}{P_{DC}}$$

$$\frac{V c c}{2RL}$$

$$\frac{2 V c c}{TTRL}$$