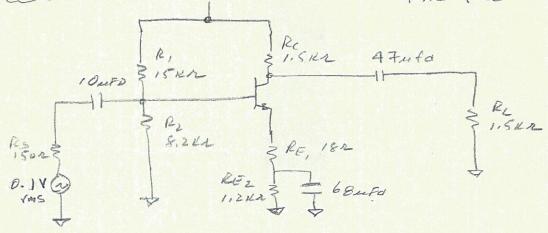
(1

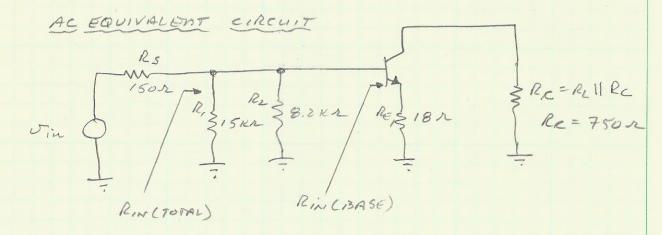


de CALCS:

$$I_{C(SAT)} = \frac{V(c - VBE)}{R_C + R_E, + R_{E2}} = \frac{25V - 0.7V}{27.81}$$

$$V'e = \frac{25mV}{I_E} = \frac{25mV}{6.68MA} = 3.74$$

## AC ANALYSIS



RINCBASE) = BAC (rie + RE,) = 185 (3.742+18); RIN (BASE) = 4.02122

RIN (FORAL) = R, II RZ II RIN (BASE)

= 15K2 | 8.2K2 | 4.02K2; (RINCTOTAL) = 2,29K2

Rout = RL = RL 11 Rc

RC

AU = (Re) (r'e + RE,)

AU = 34.5

ATTN = RAO + RINCFUTION)
RINCFUTION

ATTN = 1.066

A'U = AU. (ATTN)" = 34.5 (1/1.066)

Vour = A'v. vià = (32,38)(0.1 VIMS)

Vour = 3,238 Vrms

Is = [VA (RA + RINCFORAL)]; [Is = 40,9mA

Ai = (IR/Is) = [(3.238 VIMS/7502)/40.90A] Ai=105,34

AP = A'V. AL

= (32.38) 105,34

Ap = 3.411(103)

( AB=10log, Ap = 35.32dB

Ap = 3, 411 (103)

LOAD LINES: de LOAD LINE VALUES: PLOTTED FROM RESULTS
OF de ANALYSIS

AC LOAD LINE: 2 VALUES NEEDED TO CONSTRUCT:

NOTE: Q-Pts (de 4AC)
ALE COINCIDENT!

LECSAY) =

ICLSAT) = 8.94MA -

Ica = 6,64 mA

15.85mA-

Ic

(KCSAT) AND VRE(C-0)

") [ic(sat) = Ica + VCEQ = 6.64mA + (6.904/7502)

(LK(SAT) = 15,85 MA

2.) Vre(co) = VCEQ + ICQ. RR) = 6.904 V + (6.64ma. 750m)

Ure((0) = 11.88V)

VCEQ, Ica: Q-pt.

DE LORD LINE

25V

VCEQ = 11.8Y

6,904V