

8: -ig - iz9: $i_1 = ig - iz$ 9 9: $i_1 = ig - iz$ 8: $i_1 - ig = 0$ 8: $i_1 - 5i_2 - ig = 0$ 8: $i_1 - 5i_2 - ig = 0$ 1: $i_1 \times i0 + (ii)$ 8: $i_1 - 6i_2 = 0$ 1: $i_1 \times i0 + (ii)$ 8: $i_1 - 6i_2 = 0$ 1: $i_1 \times i0 + (ii)$ 8: $i_1 - 6i_2 = 0$ 1: $i_1 \times i0 + (ii)$ 8: $i_1 - 6i_2 = 0$ 1: $i_1 \times i0 + (ii)$ 9: $i_1 \times i0 + (ii)$ 9: $i_1 \times i0 + (ii)$ 1: $i_1 \times i0 + (ii)$ 9: $i_1 \times i0 + (ii)$ 9: $i_1 \times i0 + (ii)$ 1: $i_1 \times i0 + (ii)$ 9: $i_1 \times i0 + (ii)$ 1: $i_1 \times i0 + (ii)$ 9: $i_1 \times i0 + (ii)$ 1: i_1

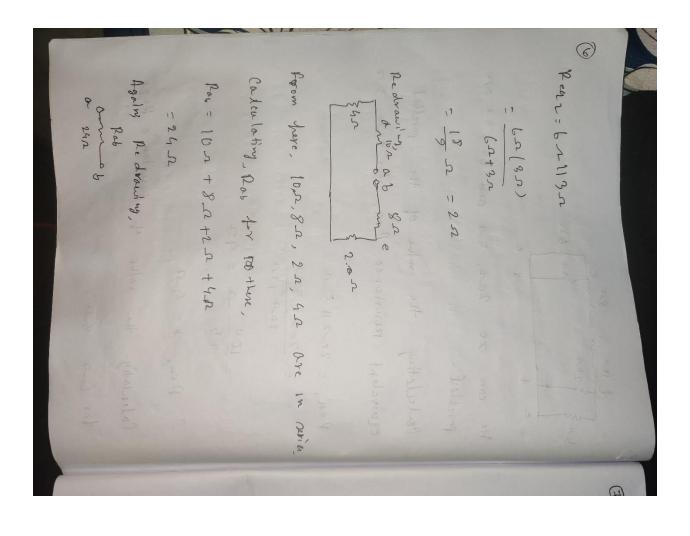
Estaing (N) and (y) =

1 = 1.01 A

1 = 1.0

Calendary the value of resintance Rega

for 62, 952.



The cercuit is a non-invertised amplifier.

Writing the expression for output voltage:

V= = (| + \frac{p_F}{n_I} \) V,

Substituting \$50 km for output voltage:

v_0_1 = (| + \frac{p_F}{10 km}) & V mu)

=) (| + 5) (4 mu)

=) (| + 7) (4 mu)

=) 24 mV

Here aranitar combination in connected as
there aranitar combination in connected as
the board, the non-inverting amplifier,
are in parelled.

People - (60 km) (30 km)

People - (60 km) (30 km)

- 1800 km

- 100 km

- 100

(An) (An) (An) (An)

Apply Kirchoffin current law at Mod, v.

$$\frac{V_{o}}{10K} + \frac{V_{o}}{40K} + \frac{V_{o}-1}{224} = 0$$

$$= \frac{v_0}{10} + \frac{v_0}{v_0} + \frac{v_{0-1}}{22} = 0$$

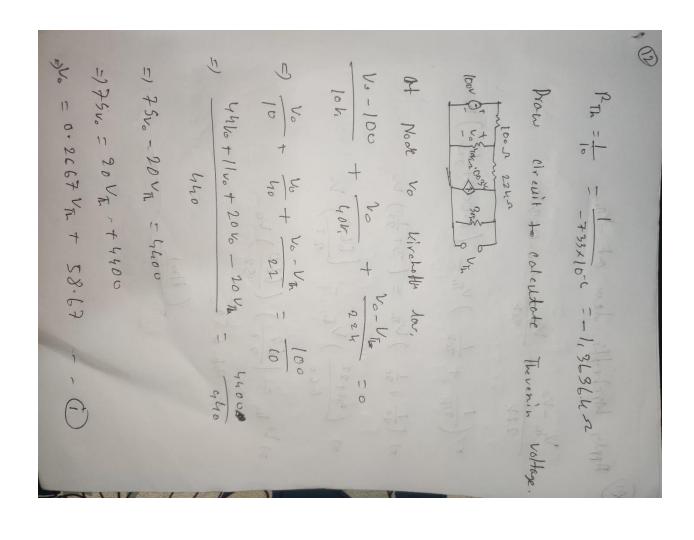
=) 44Vot 11 Vot20vo-20=0

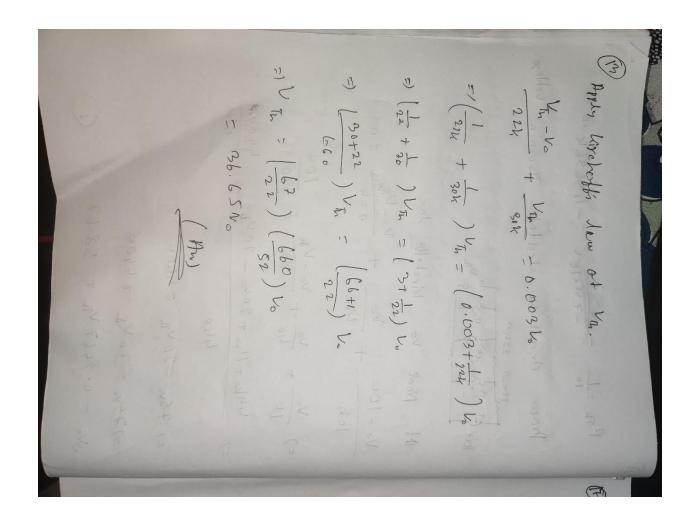
$$=) 750 = 20$$

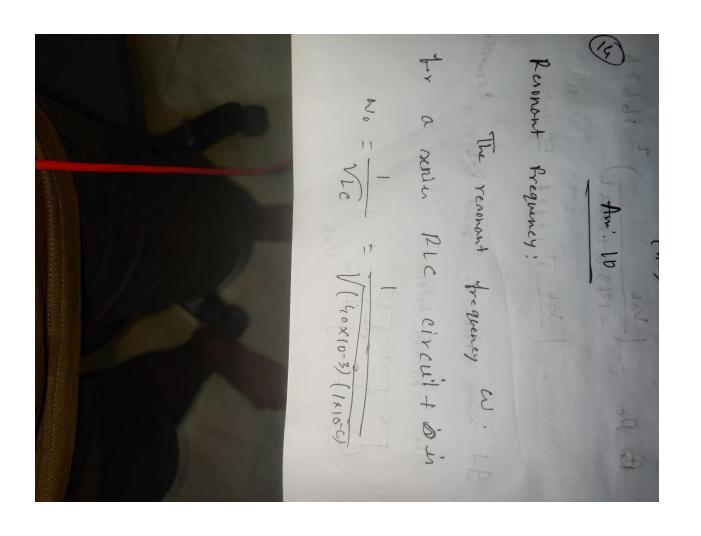
=> V6 = 20 0= 4 0000011 + (21/4) 0100

44 Vo + 11vg + 20vo - 20 50

75 vo \$120 vo = 20/75 = 4/15V



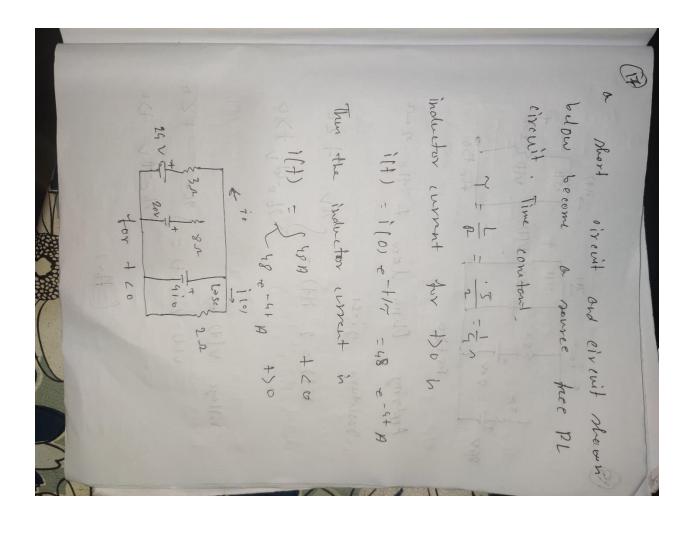


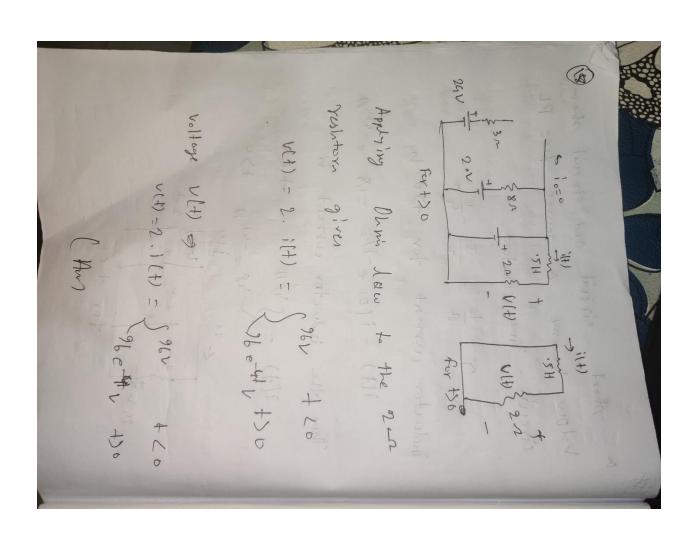


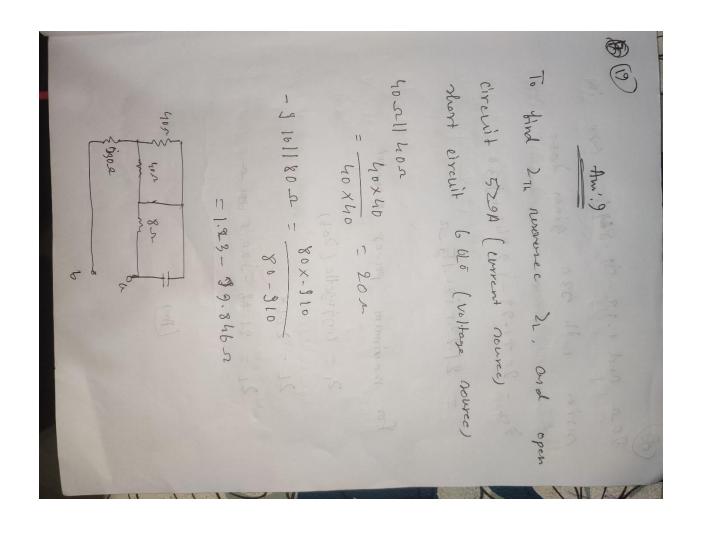
Impedance at resonance.

The impedance of a series Recurrent in purely resisted a series and ple exercisis in purely resisted as a series of the security resisting of the security resistance of the security resistance.

for + 20, the Inductor acts on a for + 20, the Inductor acts on a feetown becomes a contact the coresist with the contact that the contact the contact







2000 and 1.19-ig. 846 20 ere in
norien with \$330 given Loss-

= 21.23+120.15 12 tuporis trade

200 = 20 +1.28 - j 9.846+ j 30

For monimum power susoners

2, = logingette (206)

2L = 2064

21 = 21.23 - 320.15 was

(Aus

Here, huft in series with 1248

[4x12] = 9,448

And 9,46 in partled with 8,46

8ivo.

