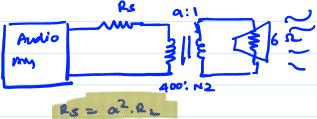
7.2 Transformers

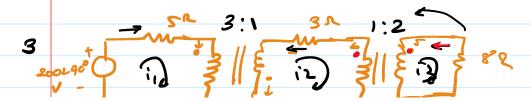
Friday, 4 March 2022 3:48 PM

V2 = 240V

82 Rs - 2000 R

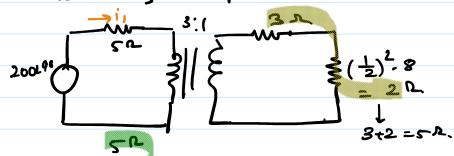


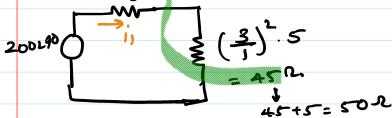
$$2000 = a^2.6$$





→ i, and i2 → 180° phase difference





$$i_1 = \frac{200190}{50} = 4190^{\circ}$$

4) 33 KVA, 960/120V

	Vollage (v)	Curent (A)	Pover (W)
SL	63	Irated	300

S.C. Test -> Irated -> Primary -> S. C. Sevendouy Side.

Rated Apparent Power = B3KVA.

Viraked = 960V

I rated = 33 × 103 = 34.375A

Vmen = 63V

Ze= Vmess = 63 = 1.833 sc.

Tirated 34.375

P = Irates Req.

 $\Rightarrow \log = \frac{800}{(34.375)^2} = 0.25 \Omega.$

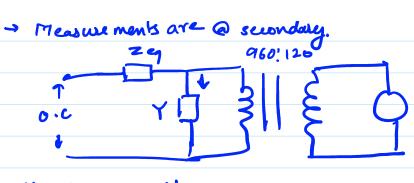
Xeq = \ Z2- Reg = \ 1.8332-0:252 = 1.815 2.

Zer = 0.25+ j 1.815 12

→ O·C Test

Apply Ported Voltage @ Seconday. o.c. - Primary.

→ Measure ments are @ scrondary.



Varated: 120V

Virated = 960V

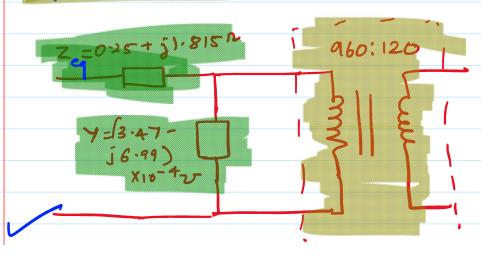
I2 = 6

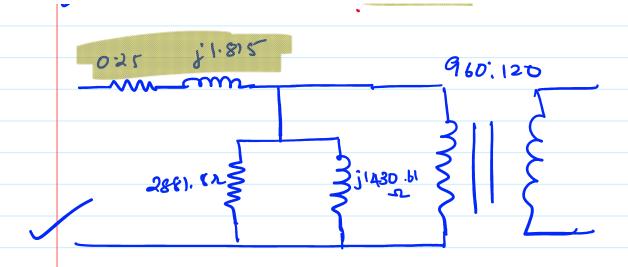
$$I_1 = 6 \cdot \left| \frac{120}{960} \right| = 0.75 A.$$

$$G = 320 = 0.0003477 = 1$$
 960^2

$$B = \int Y^2 - G^2 = 0.000699 \ \text{T} = \frac{1}{x_m}$$

Xm = 1430.61 s.





- Principles of Trans Former
- -> Application.
- -> Practical Transforme
- -> Parameter Test -> S.C. Test

