

Zn = a Cheal =) Z = 380,88 (0.01+1001) Zh = 380,88 (0



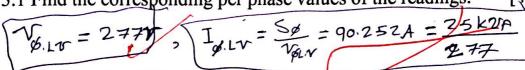
Q3) Three single phase transformers each one is rated at 25 kVA (24000/277) V are connected in Δ -Y. In the O/C test the LV side was the primary and the following readings were obtained:

$$V_{\text{Line}} = 480 \text{ V}$$

$$I_{Line} = 4.1 A$$

$$P_{3ph} = 945 \text{ W}$$

3.1 Find the corresponding per phase values of the readings.



$$P_{x} = \frac{945}{3} = 315W$$

3.2 Use (3.1) to find the values of transformer resistance & reactance.

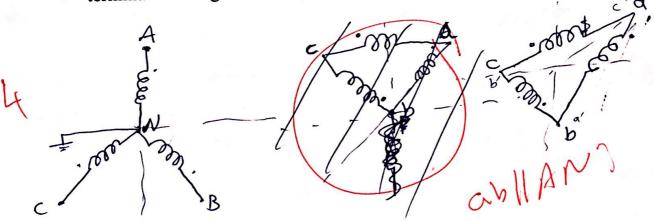
$$R = \frac{1}{2} + \frac{1}{3} +$$

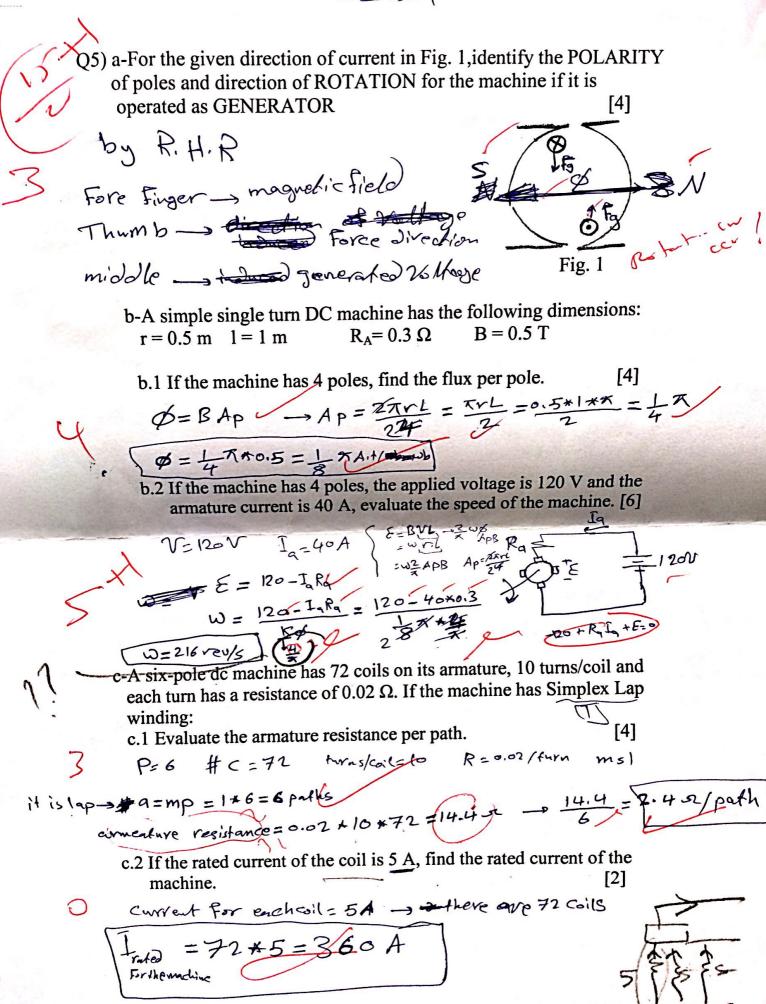
Q4) For the connection designation YNd1:

4.1 Explain what it means.

Side with delta Connection without neutral and H.V leads L.V by 30°.

4.2 Draw its equivalent connection diagram by showing the proper terminal markings according to conventional method.





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