Q2. A transformer is rated 10 kVA, 60Hz. The parameters for the approximate equivalent circuit shown below are Rm = 80kΩ, Xm = 35kΩ, R1 = 3Ω, X1 = 10 Ω, R2= 0.5 Ω, X2 = 2 Ω, N1=100 and N2=20. The rated secondary full load. The transformer is connected to an impedance of 2+j3 Ω. Calculate the secondary and primary current of the transformer if the primary side is connected to a 6350.85< 15°V source.

250.835 -339.63

422

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