

QUESTION 1

Determine current flowing in the load by

- (i) Applying Thevenin's theorem
- (ii) Applying the superposition theorem
- (iii) By transforming the two voltage sources and their associated reactance into current sources (and thus form a pair of Norton generators)



$$v_1 = \sqrt{2} \times 415 \cos(100\pi t) \quad \text{volts}$$

$$v_2 = \sqrt{2} \times 415 \sin(100\pi t) \quad \text{volts}$$

Solution

Part a

The root mean square values are given as,

$$V_1 = 415 \angle 90^\circ$$

$$V_2 = 415 \angle 0^\circ = 415$$

The load impedance,

$$Z_L = 50 \text{ ohms } @ 0.7 \text{ pf}$$

Converting into a polar representation,

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