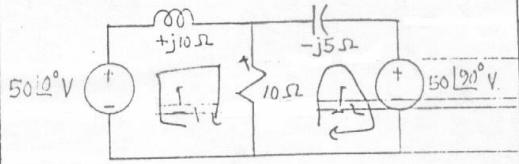


Q1 (B problem)

The average power absorbed by the 10Ω resistor, in W, is:

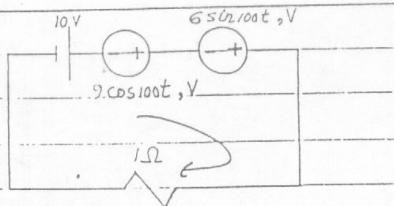
- a) 21.5 , c) 521.3 , d) 312.5
 b) 32 , d) 3215.



(2 C problem)

The real power dissipated by the 1Ω resistor, in W, is:

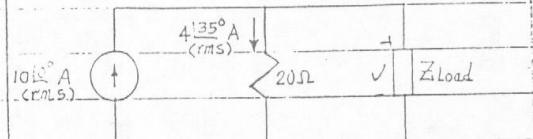
- i) 185.5 , c) 18.55 , e) 12
 b) 158.5 , d) .55



Q3 (C problem)

The reactive power absorbed by the load, in VAR, is:

- a) 335.3 , c) 45.8 , e) 128
 b) 54.89 , d) 158.9



Q4 (C problem)

The apparent power absorbed by the load, in VA, is:

- a) 568.3 , c) 458.9 , e) -200
 b) 33.5 , d) 586

Q5 (C problem)

The power factor of the load is:

- a) 0.95 lagging , c) 0.59 lagging , e) 0.9 leading
 b) 0.5 leading , d) $1/\sqrt{2}$ lagging

Q6 (E problem)

Given a three-phase, balanced, Δ -connected load has a phase impedance of $10+j10\Omega$. The line voltage magnitude is 380 V (rms). The complex power absorbed by the load equals:

- a) $220+j220$, b) $7220+j7220$, c) $720+j720$, d) $220+j720$, e) $722+j220$

Q7 (E problem)

Given a three-phase, balanced, Δ -connected load has a phase impedance of $6+j8\Omega$. The line current magnitude is 20 A (rms). The complex power absorbed by the load equals:

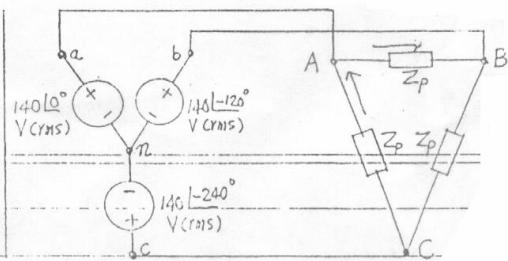
- a) $2400+j3200$, b) $3200+j2400$, c) $320+j240$, d) $200+j400$, e) $600+j800$

Q8 (A problem)

Given the load draws 15kW and 9kVAR.

\bar{I}_{AB} , in A (rms), equals:

- a) $42 \angle 30^\circ$, c) $240 \angle +0.964^\circ$, e) $24.05 \angle -0.964^\circ$
 b) $25.04 \angle -9.64^\circ$, d) $41.06 \angle -30.964^\circ$



Q9 (C problem)

Given the load draws 15kW and 9kVAR.

\bar{I}_{AA} , in A (rms), equals:

- a) $35.7 \angle -0.964^\circ$, c) $41.65 \angle -30.964^\circ$, e) $24.06 \angle -40.964^\circ$
 b) $21.43 \angle +0.964^\circ$, d) $65.41 \angle +30.964^\circ$

Q10 (C problem)

Given the load draws 15kW and 9kVAR.

Z_p , in Ω , equals:

- a) $0.65 + j 9.5$, c) $5.62 + j 1.95$, e) $8.5 + j 5.9$
 b) $6.58 + j 9.51$, d) $8.65 + j 5.19$

Question #	1	2	3	4	5	6	7	8	9	10
Answer	e	x	b	a	g	b	a	e	x	d

(10)
(10)