Assignment 1
Due on 2020-02-12, 23:59:59 IST.

The total marks for submitting this assignment (has passed).
From our records you have not submitted this assignment.

1. A three-phase, 3-wire system with star-connected load. The 3-phase voltages are balanced sinusoidally with RMS value of 250 V. The 3-phase loads connected to star are shown as given, \( Z_a = 4 + j3 \), \( Z_b = 3 + j6 \) and \( Z_c = 4 - j5 \). Calculate line current, \( I_L \) (in mag)(A), phase (degrees)...

2. No, the answer is incorrect.

3. Answer Correct

4. \( 8.57, 178.5^\circ \)

5. Answer Correct

6. In above question A/Q, calculate the effective apparent power factor

7. \( 14.285 \text{ kVA} \)

8. Answer Correct

9. Consider the following voltage and current in single phase system.

10. \( 10 \text{ kV} \), \( 20 \text{ kA} \), \( 100 \text{ MW} \), \( 380 \text{ V} \), \( 20 \text{ MVA} \), \( 30 \text{ MW} \).

11. Determine the reactive power, \( Q \)

12. \( 1854 \text{ kW} \)

13. Answer Correct

14. In above question A/Q, calculate the maximum power (Q)

15. \( 1.78 \text{ kW} \)

16. Answer Correct

17. In above question A/Q, calculate the apparent power (S)

18. \( 2.774 \text{ kVA} \)

19. Answer Correct

20. In above question A/Q, calculate the Power factor (pf)

21. \( 0.61 \)

22. Answer Correct

23. No, the answer is incorrect.