

Homework 1 Answers

Please be sure to clearly show your work in the solutions that you submit. Your approach is much more important than obtaining the correct numerical answer.

Problem 3.16: 0.38 V

Problem 7.28: $2.28 \cos(10^4 t + 15.30^\circ) \text{ (A)}$

Problem 7.38: $V_{\text{Th}} = ??$ (answer not provided), $Z_{\text{Th}} = (0.17 + j0.10) \Omega$

Problem 7.39: $Z_L = (6 + j2) \text{ k}\Omega$

Problem 7.49: $V_1 = (20.7 + j16.1) \text{ V}$, $V_2 = -(20.7 + j42.1) \text{ V}$.

Problem 7.59: $1.12 \cos(2000t + 116.6^\circ) \text{ (V)}$