11.71)
   a) \( Z = 0.05018 \angle 2.00^\circ \Omega \)
   b) \( \text{pf} = 0.9994 \) lagging
   c) \( I = 2391 \angle -2.00^\circ \) A

13.1) \( L_{eq} = 20 \) H

13.8) \( v(t) = 17.67 \cos(10 \ t + 19.21^\circ) \) V

13.13) \( Z = 6.257 \angle 46.49^\circ \Omega \)

13.20)
   \[ I_1 = 2.462 \angle 72.18^\circ \text{A}, \quad I_2 = 0.8780 \angle -97.48^\circ \text{A}, \quad I_3 = 3.329 \angle 74.89^\circ \text{A} \]
   \( w = 23.15 \text{ mJ} \)

13.25) \( Z_{ab} = 1.508 \angle 18.80^\circ \Omega, \quad I_0 = 2.200 \angle -94.88^\circ \) A

13.36)
   a) \( V_2 = -n \ V_1, \ I_2 = I_1 / n \)
   b) \( V_2 = -n \ V_1, \ I_2 = -I_1 / n \)
   c) \( V_2 = n \ V_1, \ I_2 = I_1 / n \)
   d) \( V_2 = n \ V_1, \ I_2 = -I_1 / n \)

13.43) \( V_1 = 16.74 \angle 0^\circ \) V, \( V_2 = 66.98 \angle 0^\circ \) V

13.51) \( Z_m = (8 - j 1.5) \Omega, \ I_1 = 14.74 \angle 10.62^\circ \) A