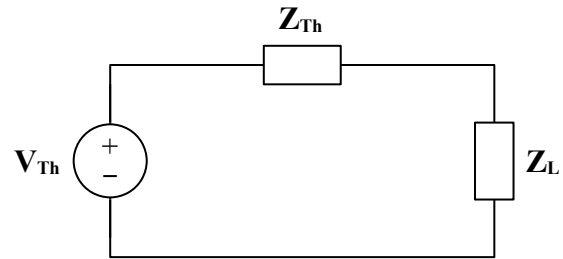


Chapter 11, Solution 96



(a) $V_{Th} = 146 \text{ V}, \quad 300 \text{ Hz}$
 $Z_{Th} = 40 + j8 \, \Omega$

$$Z_L = Z_{Th}^* = \mathbf{[40 - j8] \, \Omega}$$

(b) $P = \frac{|V_{Th}|^2}{8 R_{Th}} = \frac{(146)^2}{(8)(40)} = \mathbf{66.61 \text{ W}}$