## Chapter 11, Solution 13.

For maximum power transfer to the load,  $Z_{\rm L}$  = [120 - j60]  $\Omega.$ 

$$I_L = 165/(240) = 0.6875 \text{ A}$$

$$P_{avg} = [|I_L|^2 120]/2 = 28.36 \text{ W}.$$