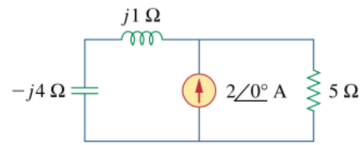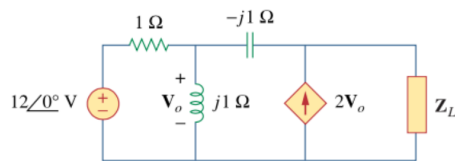Given the circuit in Fig. 11.35, find the average power supplied or absorbed by each element.
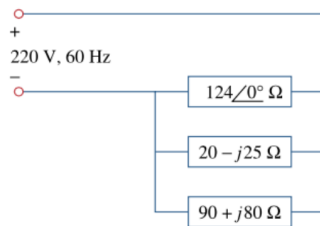

1.

In the circuit of Fig. 11.46, find the value of Z_L that will absorb the maximum power and the value of the maximum power.
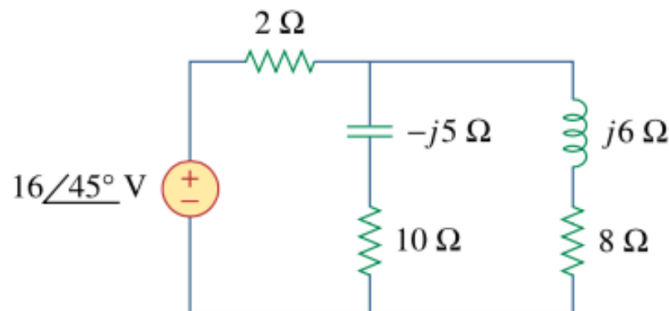

2.

For the power system in Fig. 11.67, find: (a) the average power, (b) the reactive power, (c) the power factor. Note that 220 V is an rms value.

3.

For the entire circuit in Fig. 11.70, calculate:

(a) the power factor
(b) the average power delivered by the source
(c) the reactive power
(d) the apparent power
(e) the complex power

4.