VE215
Assignment #9
Fall 2016

Problem 1

Obtain the line currents in the three-phase circuit of Fig. 1 below.
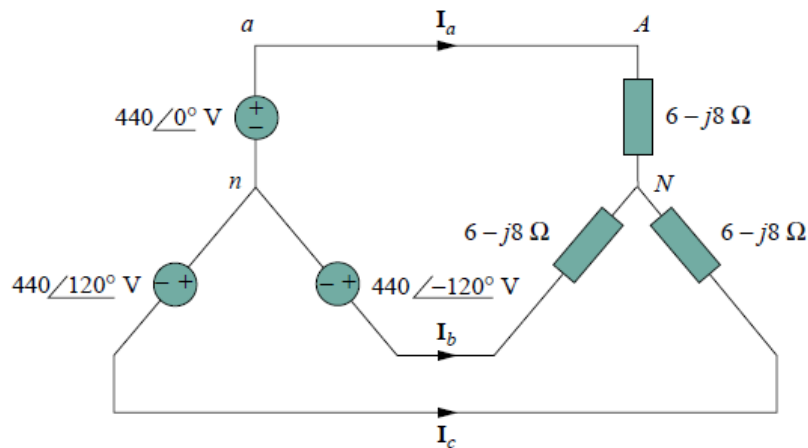

Figure 1

Problem 2

For the three-phase circuit of Fig. 2, $\mathbf{I}_{bB} = 30 \angle 60°$ A and $\mathbf{V}_{BC} = 220 \angle 10°$ V. Find $\mathbf{V}_{an}$, $\mathbf{V}_{AB}$, $\mathbf{I}_{AC}$, and $\mathbf{Z}$.
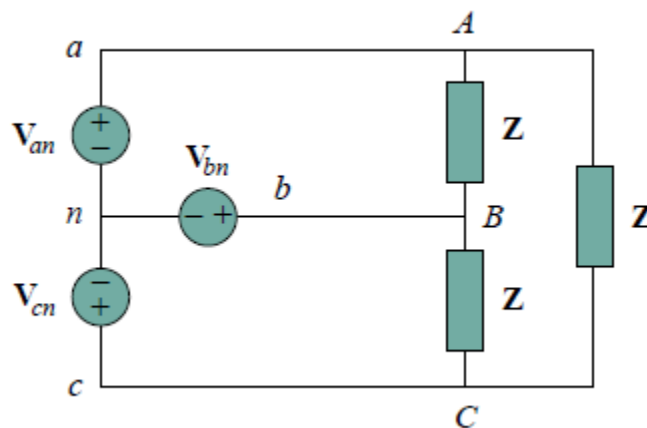

Figure 2

Problem 3

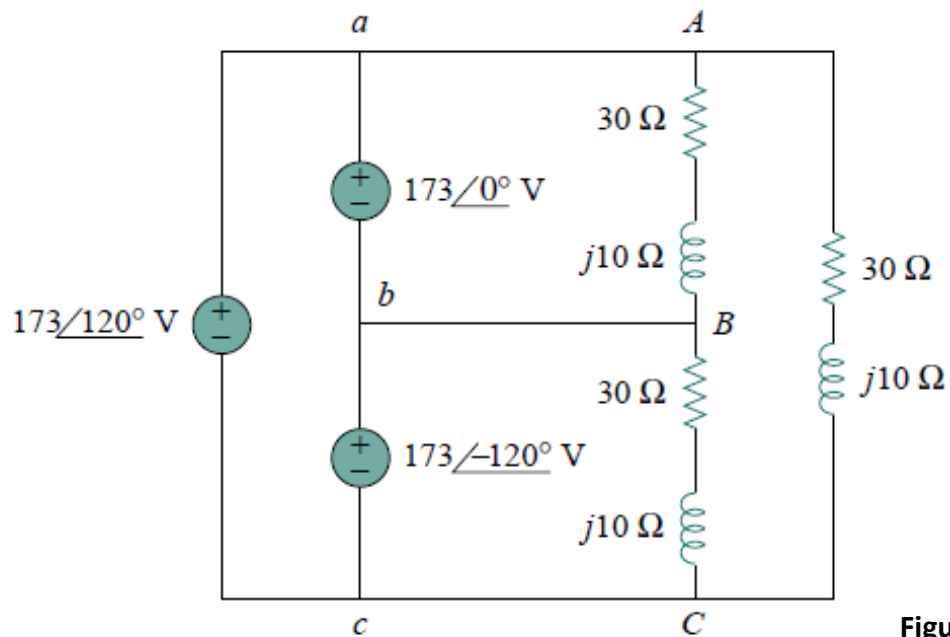For the Δ-Δ circuit of Fig. 3, calculate the phase and line currents.

Figure 3

Problem 4

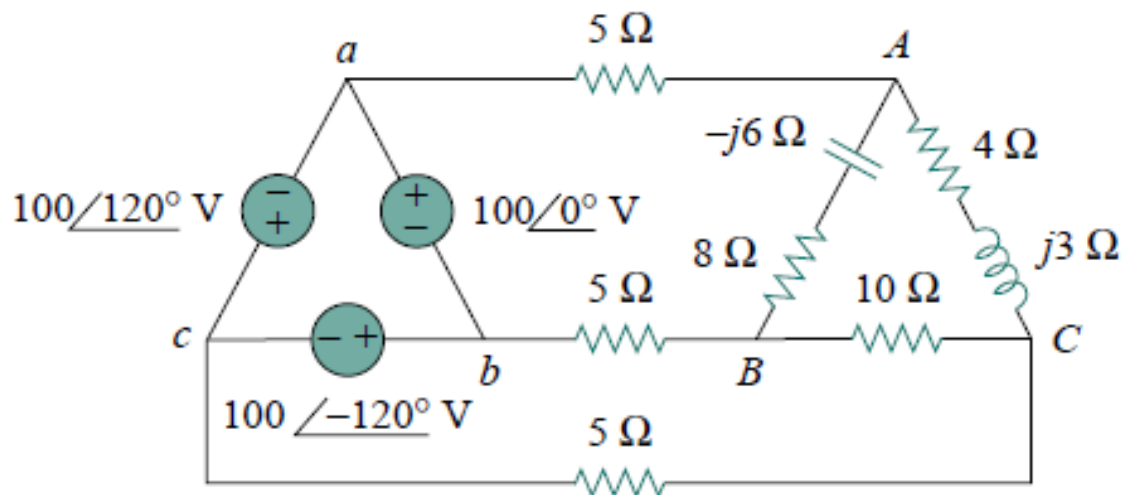Find the real power absorbed by the load in Fig.4.

Figure 4