

**Homework Problem #048**

Given  $v_\phi = 100$  V (i.e.,  $\mathbf{V}_{an} = 100\angle 0^\circ$  V,  $\mathbf{V}_{bn} = 100\angle 120^\circ$  V and  $\mathbf{V}_{cn} = 100\angle -120^\circ$  V) for the load shown below, determine  $R_1$  and  $R_2$  so that the sources see a balanced load. Then, find the values of  $\mathbf{I}_1$  and  $\mathbf{I}_2$ .

