**12.66** A three-phase, four-wire system operating with a 208‑V line voltage is shown in Figure 12.71. The source voltages are balanced. The voltage of phase 1 is the reference phasor. The phase sequence is 1, 2, 3. The power absorbed by the resistive wye-connected load is measured by the three-wattmeter method. Calculate:

(a) the voltage to neutral

(b) the currents **I**1, **I**2, **I**3, and **I***n*

(c) the readings of the wattmeters

(d) the total power absorbed by the load