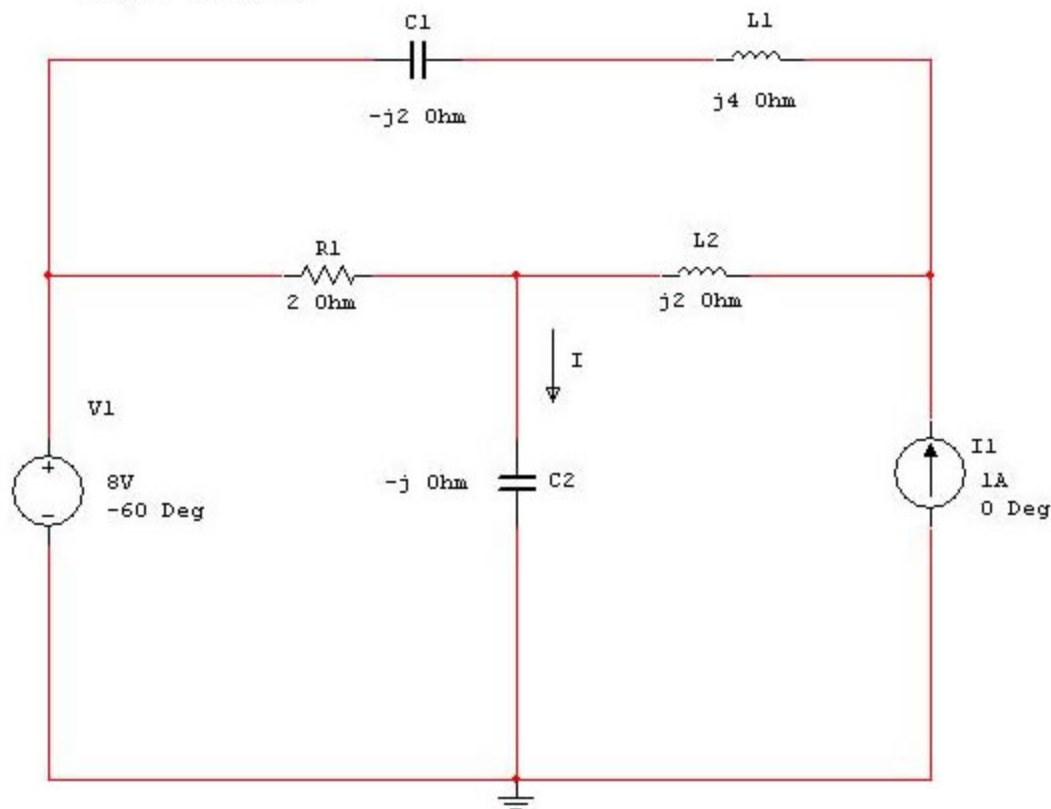


In the circuit below using nodal analysis, calculate: $i(t)$.

$\Omega = 2 \text{ rad/sec}$



a. $i(t) = 5.024 \cos(2t - 46.55^\circ) \text{A}$

b. $i(t) = 2.810 \cos(2t + 20.98^\circ) \text{A}$

c. $i(t) = 3.024 \cos(2t - 50.98^\circ) \text{A}$

d. $i(t) = 5.024 \cos(2t + 12.98^\circ) \text{A}$