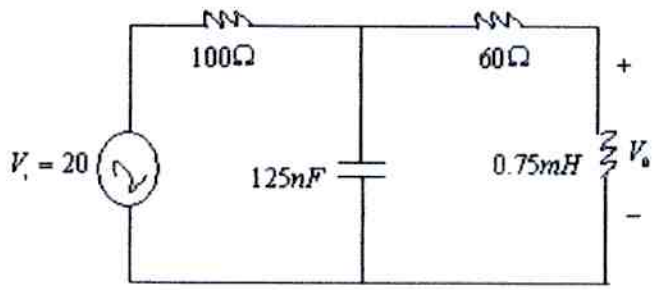
In the RLC circuit shown in the figure, use phasor analysis to find the expression for Vo(t) if Vi(t) = 20cos(16E04*t) V.



a.

v_0 (t) = 0.67 cos(5 * 10^4 t – 11.73) V

b.

v_0 (t) = -5.67 cos(5 * 10^4 t – 11.73) V

c.

v_0 (t) = 9.49 cos(16 * 10^4 t – 18.43) V

d.

v_0 (t) = -19.49 cos(16 * 10^4 t – 18.43) V