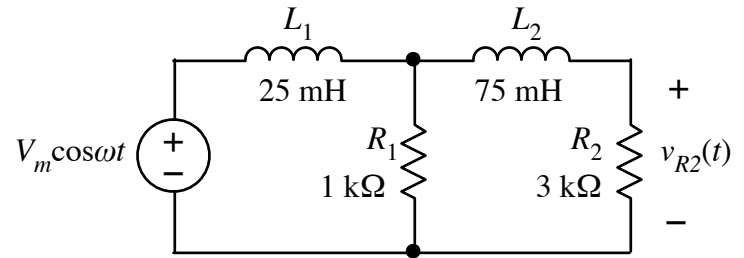Use AC analysis to find the complex voltage across the resistor R_2.

The amplitude of the source is $V_m = 10$ V, and the angular frequency is $\omega = 40{,}000$ rad/s.

Express the result in magnitude/phase form.

v$_{R2}$ = _____