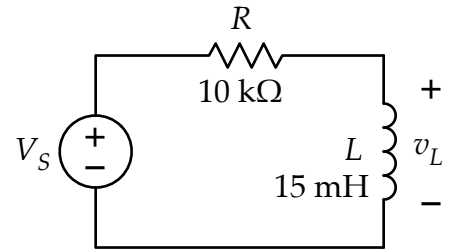
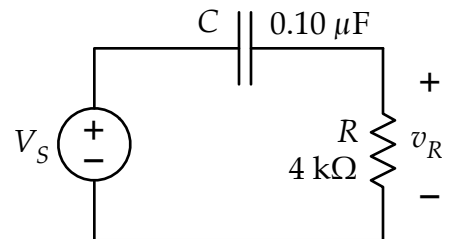


a. In the circuit at right, $V_s = (8V)\cos\omega t$. Find the frequency (f not ω) for which the *magnitude* of v_L is 2 V. Calculate the phase of v_L at that frequency.



$f =$ _____ $\theta_L =$ _____

b. In the circuit at right $V_s = (8V)\cos\omega t$. Find the frequency (f not ω) for which the *phase* of v_R is $+45^\circ$. Calculate the magnitude of v_R at that frequency.



$f =$ _____ $|\tilde{\mathbf{V}}_R| =$ _____