

Hint: Answer's phase should be close to $90^{\circ}$.

P2 What is $V_{\text {out }}(t)$ if we change $v_{i n}(t)$ to 5 V (i.e. a $\mathbf{D C}$ signal of $\omega=0 \mathrm{rad} / \mathrm{s}$ )
P3 Plot the magnitude of $v_{\text {out }}(t)$ as the input frequency changes from 10 to 10 kHz using LTspice. This is an example of a filter. Does it pass low or high frequencies?

