

Problem 3

In the circuit below, the input and output are denoted as v_i and v_{out} .

1. Find the transfer function $H(j\omega) = \frac{v_{out}}{v_i}$.
2. Calculate the expression for the system gain $|H(j\omega)|$ and the phase shift $\angle H(j\omega)$.

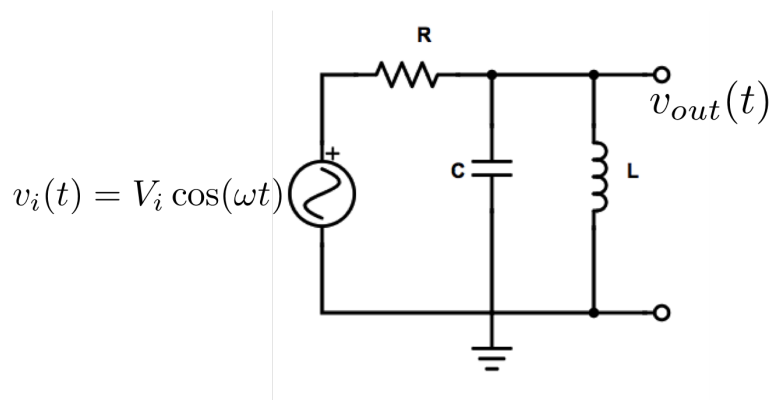


Figure 3