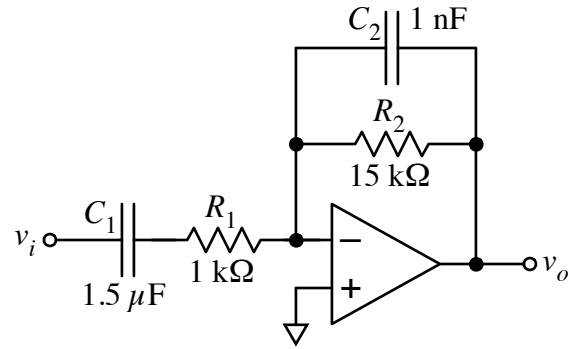


Use AC analysis to calculate the gain for the circuit shown at right for $\omega = 100 \text{ rad/s}$, 10^3 rad/s , 10^4 rad/s , and 10^5 rad/s . Note that since \underline{v}_o will be complex, the gain will also be complex.

$$G = \frac{\tilde{v}_o}{\tilde{v}_i}$$



Express the answers in magnitude / phase form.

$\omega = 10^2 \text{ rad/s}$: $G =$ _____

$\omega = 10^3 \text{ rad/s}$: $G =$ _____

$\omega = 5 \times 10^4 \text{ rad/s}$: $G =$ _____

$\omega = 10^5 \text{ rad/s}$: $G =$ _____