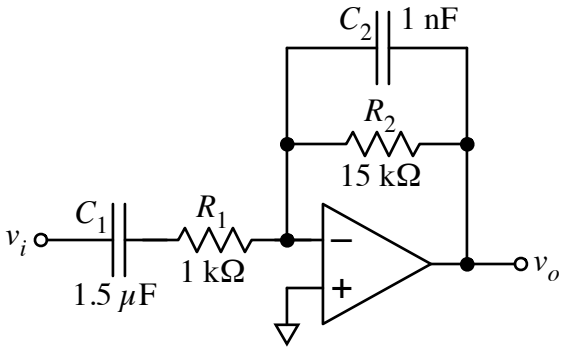
EE 201 — HW 8-5 Name_____

Use AC analysis to calculate the gain for the circuit shown at right for ω = 100 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.

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

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

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

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

Write your answers — and whatever work will fit — on this sheet. Staple any sheets with additional work behind.