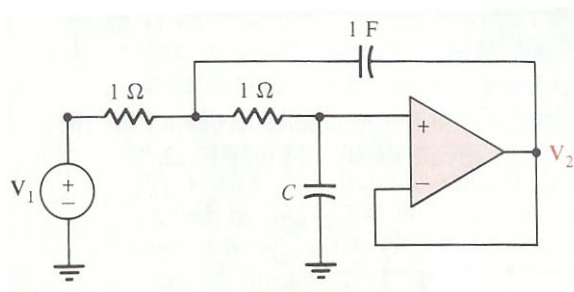## Problem 1:

For the op-amp circuit given in the

figure, find the transfer function

$H(s)=V_2/V_1$ and draw the pole-zero

plot for the case that $C=\dfrac{1}{5}F$

Problem 2:

For the shown circuit,

    a) Find the transfer function, $H(s)=V_2/V_1$.

    b) Draw the pole-zero plot of H(s).

    c) If $v_1(t)=10e^{-17.5t}\cos 7.5t$, Find $v_2(t)$.

Good Luck, **Dr. Ali Muqaibel**