

King Fahd University of Petroleum & Minerals

Electrical Engineering Department

EE205: Electric Circuits II

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HW 5: S-Domain Analysis , Pole-Zero Plot

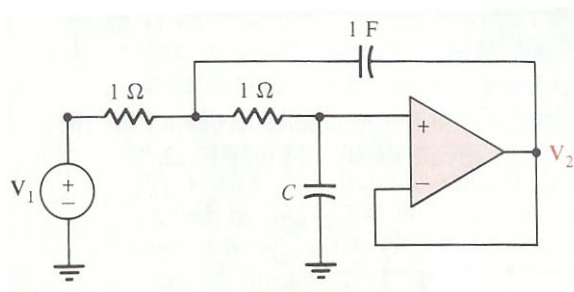
Problem 1:

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 $C=\frac{1}{5}F$



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 $v_2(t)$.

