

ECE3 Fall 2021

Homework 5

Name _____

Family Name Given Name

UID _____

- What is \mathbf{v}_{out} at DC?
- What is \mathbf{v}_{out} as $\omega \rightarrow \infty$?
- What kind of filter is this?
- Find $|\mathbf{v}_{\text{out}}/\mathbf{v}_{\text{in}}|$. $\mathbf{v}_{\text{out}}/\mathbf{v}_{\text{in}}$ is symbolic and complex.
- What is the cutoff frequency?
- What is the time constant?

