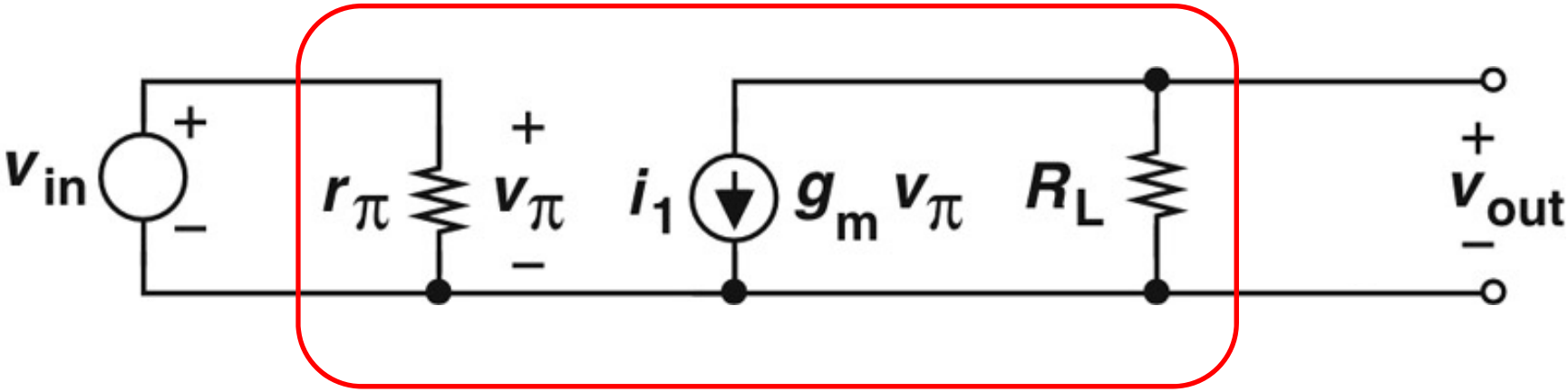
# Lect. 2: Review of Basic Circuits (1) (Razavi 1.3.4)

Consider an amplifier (linear model)




- Voltage gain:

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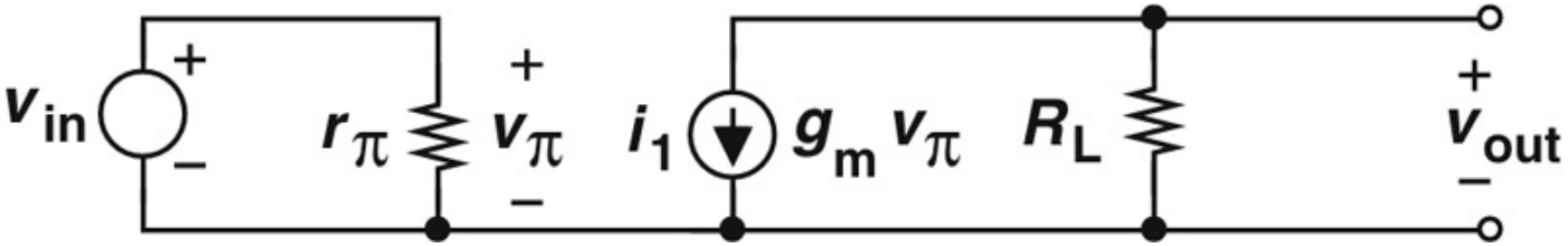
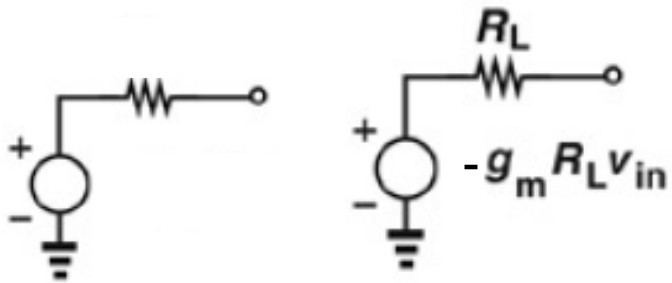
Consider an amplifier (linear model)

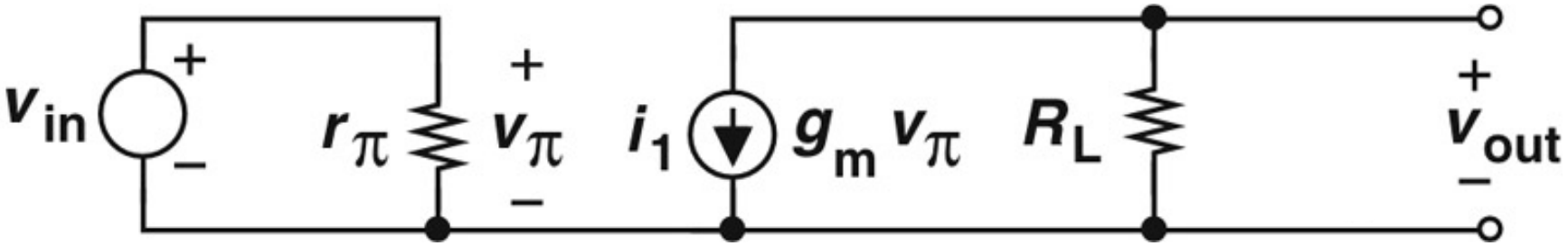



- Thevenin equivalent circuit:

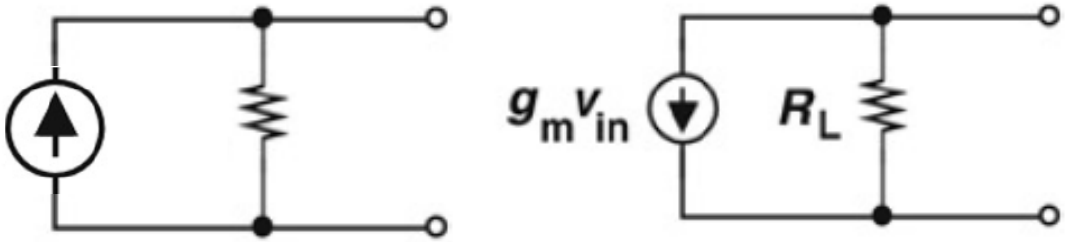


# Lect. 2: Review of Basic Circuits (1)

Consider an amplifier (linear model)

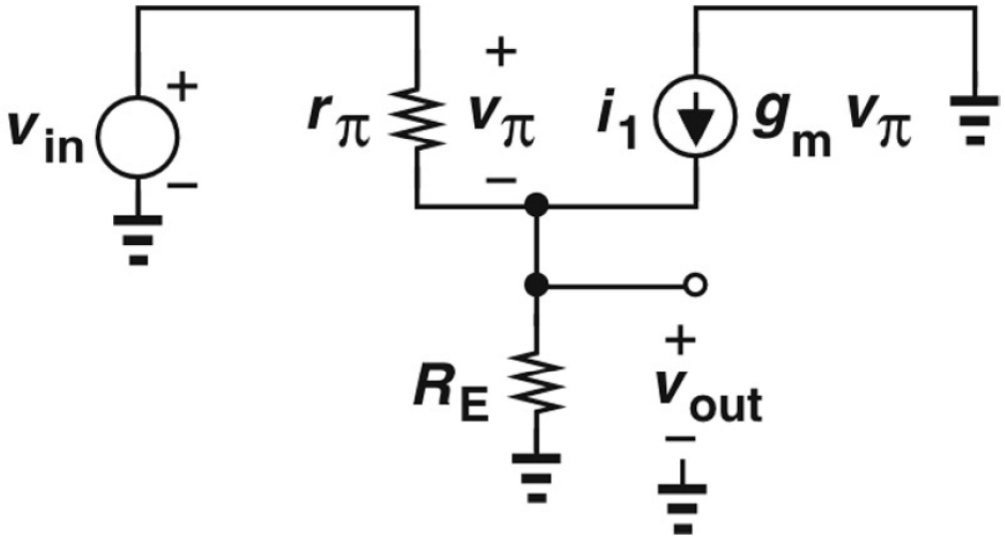



- Norton equivalent circuit:



# Lect. 2: Review of Basic Circuits (1)

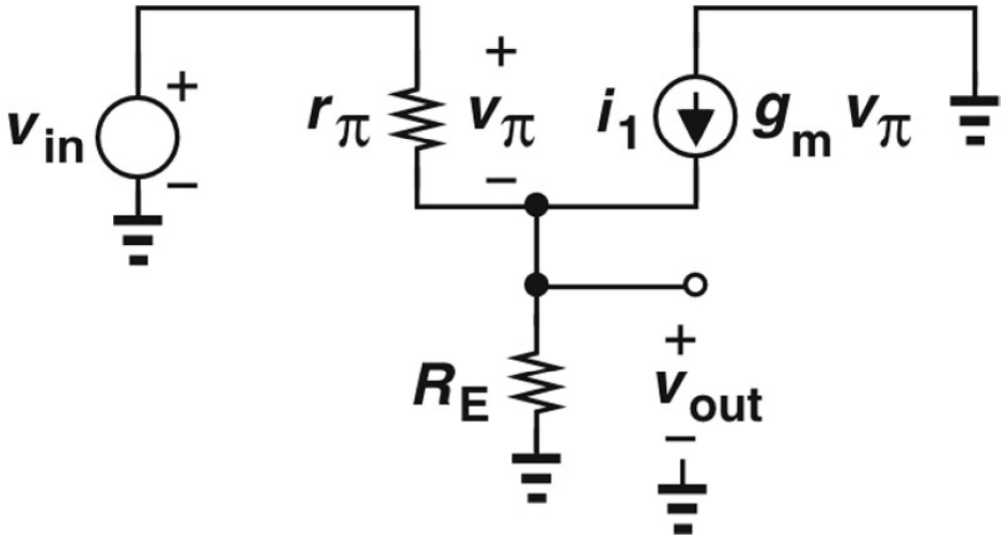
Consider another type of an amplifier (linear model)




- Voltage gain:

# Lect. 2: Review of Basic Circuits (1)

Consider another type of an amplifier (linear model)




- Thevenin equivalent circuit:

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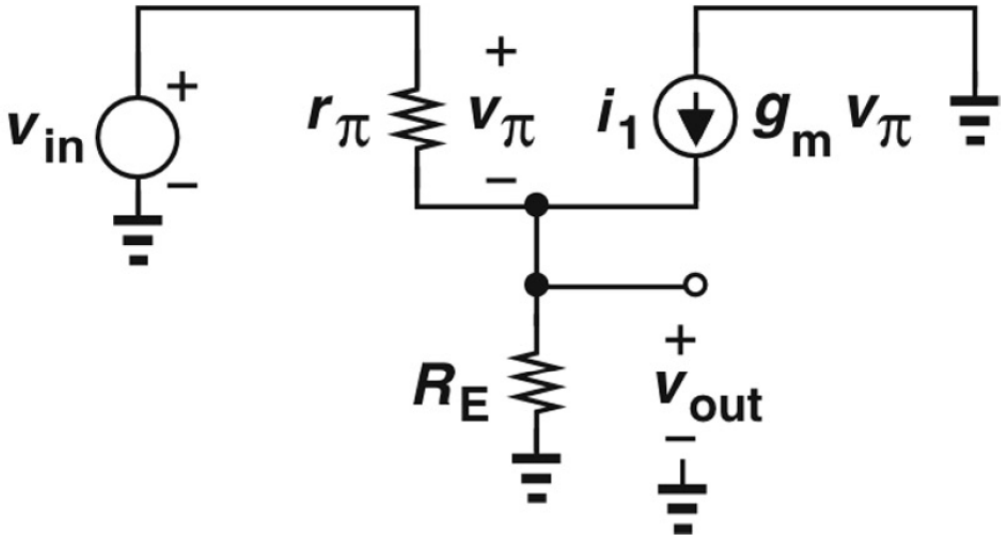
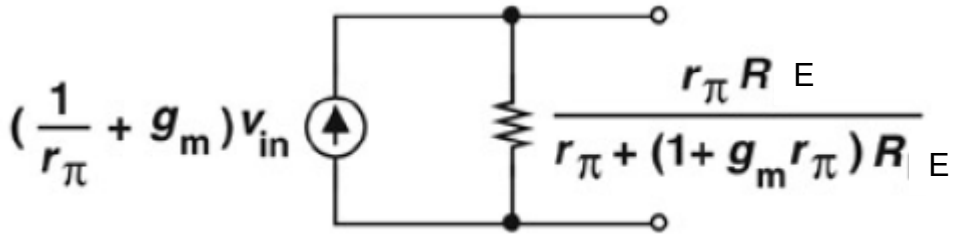
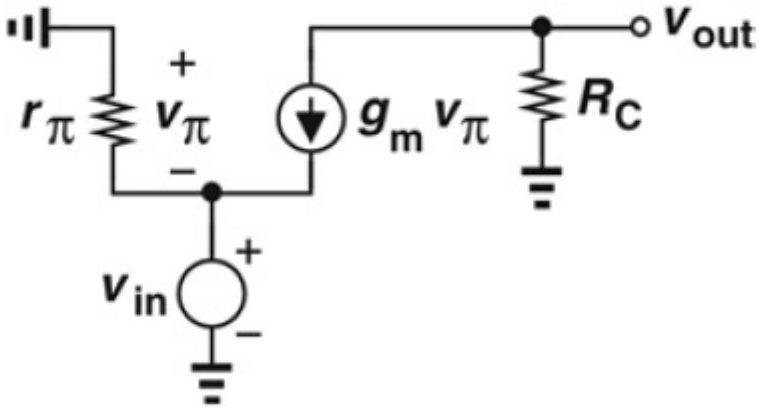
Consider another type of an amplifier (linear model)




- Norton equivalent circuit:



# Lect. 2: Review of Basic Circuits (1)

Homework: Due on 9/7 before tutorial

- Determine $v_{out}/v_{in}$, Thevenin, and Norton equivalent circuits for the following amplifier