Spring 2024 – ECE 3020
Homework 7

Due: 02/28/2024

1. Install TopSpice on your device using the instructions in slides contained in "ECE 3020 Spring 2024 S9 – TopSpice.pdf." Alternatively, you use OSU virtual machines as described in page 3.

2. Simulate examples 2 and 3 and include screenshots of your schematics and transient and AC simulation results (+DC Sweep results for example 3). Save and submit your results on Carmen.

3. Go online to find real components that realize the circuit in example 3. List the components, their associated cost and supplier, that allow you to realize the amplifier with as little deviation from the target DC gain of 40dB and -3dB Bandwidth of 10MHz as possible. Did you get to lowest cost?