The University of Portland
Donald P. Shiley School of Engineering

EE352
Electronic Circuits II
HOMEWORK 5

Assigned: Mon, Feb 24, 2020
Due: Fri, Mar 13, 2020

Problems:

1) Text 11.3

2) A negative feedback closed-loop amplifier employs an internal open-loop basic amplifier with input and output resistances each of 1kΩ and gain A=1000V/V. The closed-loop amplifier has a feedback factor of β=0.1V/V. Sketch the closed-loop feedback amplifier block diagram. For the closed-loop amplifier, find the gain, A_f, the input resistance, R_{if}, and the output resistance, R_{of}.

3) Text 11.18

4) Text 11.22

5) Text 11.24