

EE43/EE100 — LAB REPORT #7
RC Filters

Name: _____

TA: _____

Section: _____

Part 1: Determining RC Filter Characteristics

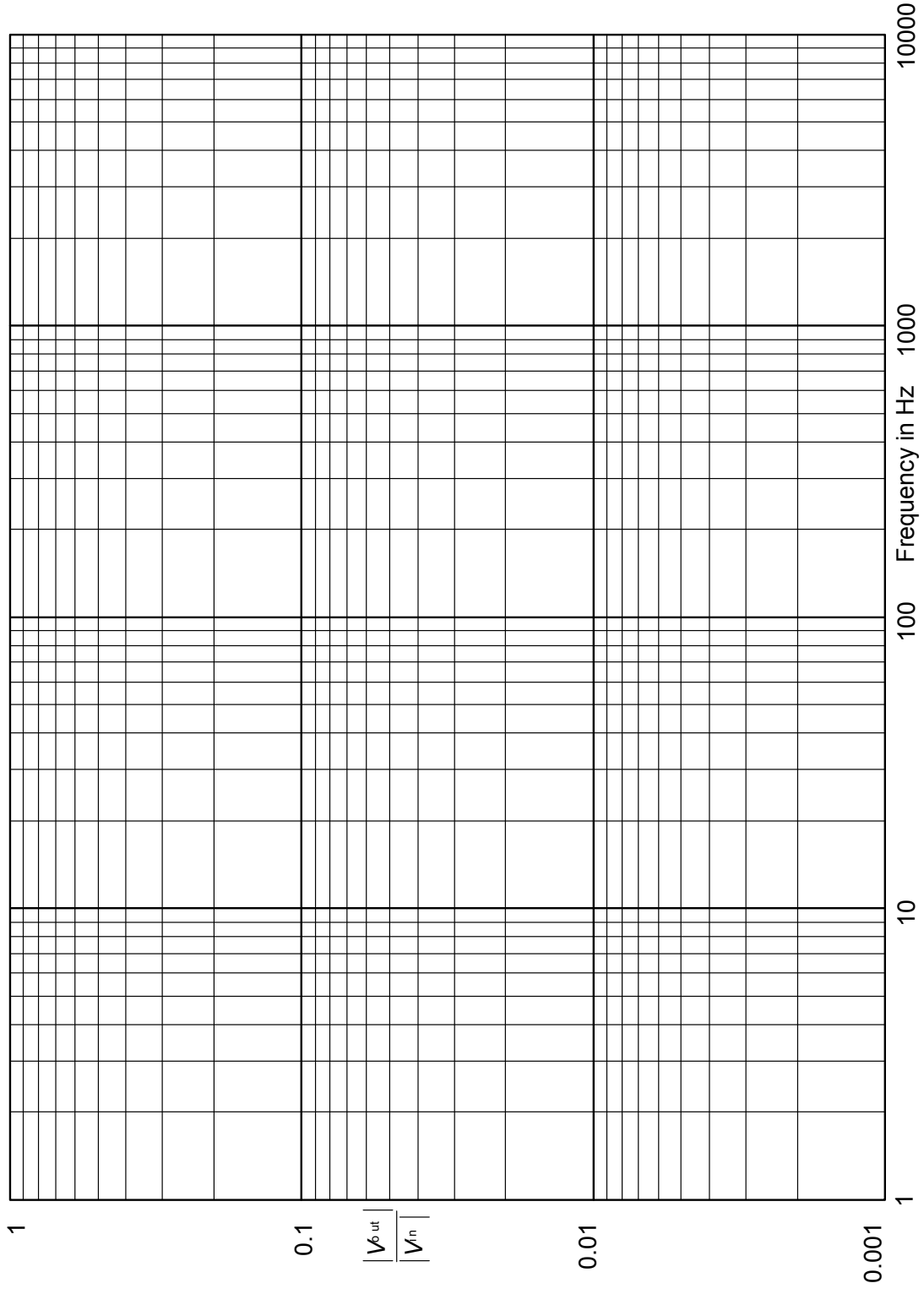
Step 2: Write down your raw data and calculated values in the following table and then draw the transfer function on a log-log graph. Please indicate the 3-dB points on your plots. (Start from 10Hz and stop at around 10 kHz.)

f [Hz]					
V_{out}					
V_{out} / V_{in}					

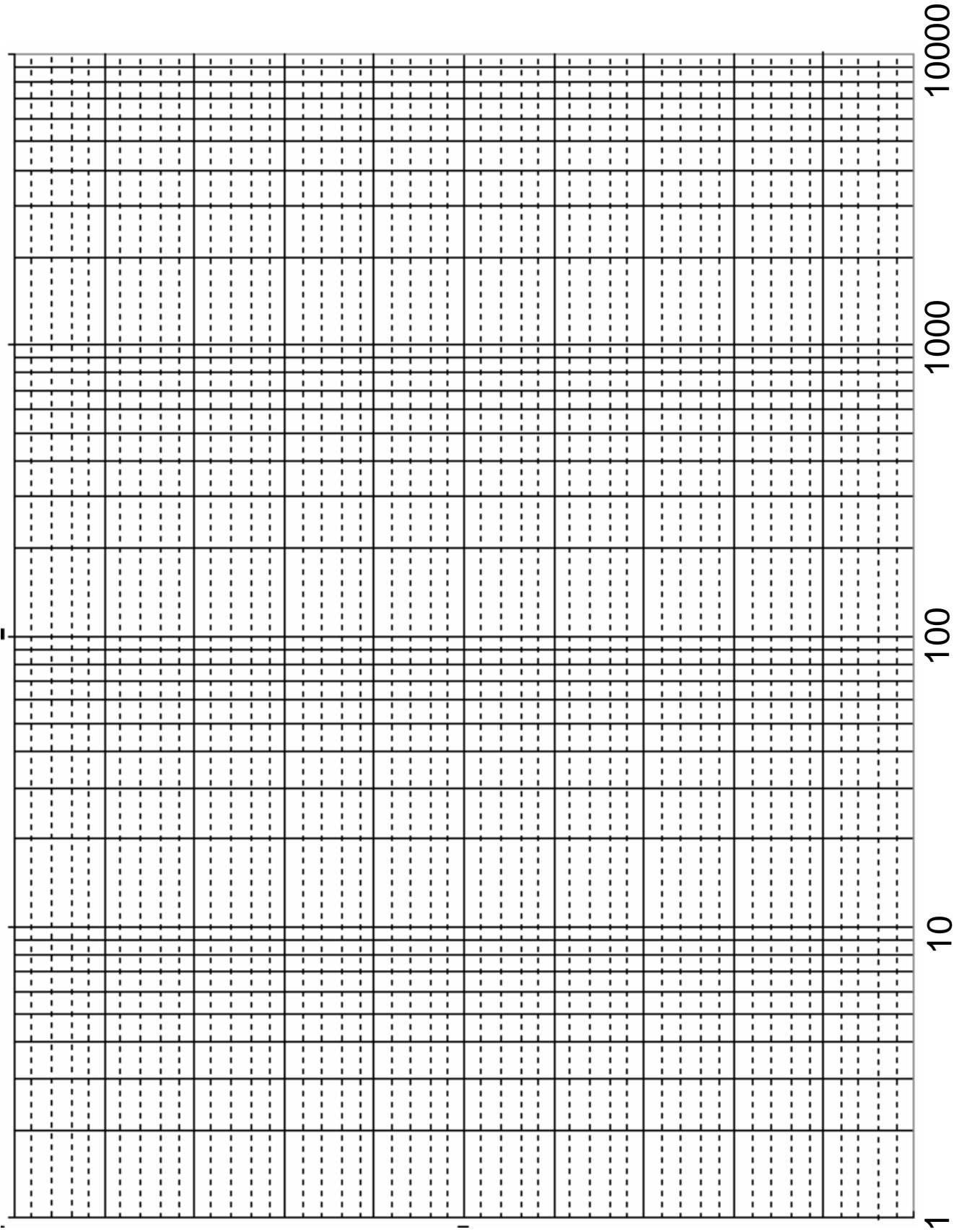
Step 3: Write down your raw data and calculated values in the following table and then draw on the semilog graph.

f [Hz]					
Period of V_{out}					
Phase shift of V_{out}					

Step 4: Qualitatively draw graphs at $f = 100$ Hz, 1 kHz, and 10 kHz of the square wave input and the output. Be sure to label your axes!



Phase in degrees



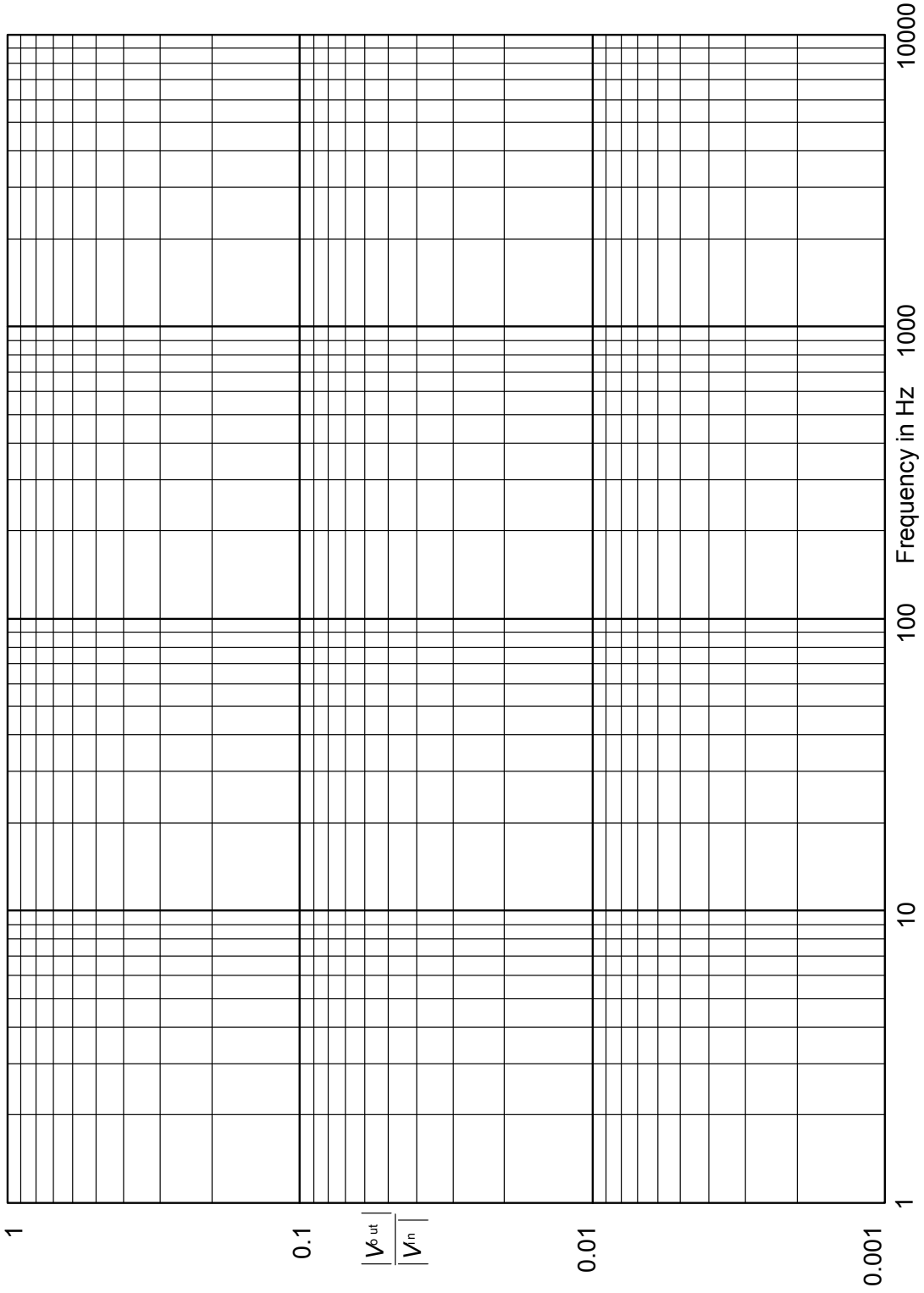
Step 5: Write down your raw data and calculated values in the following table and then draw the transfer function on a log-log graph. Please indicate the 3-dB points on your plots. (Start from 10Hz and stop at around 10 kHz.)

f [Hz]					
V_{out}					
V_{out} / V_{in}					

Step 6: Write down your raw data and calculated values in the following table and then draw on the semilog graph.

f [Hz]					
Period of V_{out}					
Phase shift of V_{out}					

Step 7: Qualitatively draw graphs at $f = 100$ Hz, 1 kHz, and 10 kHz of the square wave input and the output. Be sure to label your axes!



Phase in degrees

