

LABORATORY 1

Please print this sheet prior to coming to laboratory. Complete the pre-laboratory tasks in your lab notebook. Complete the lab tasks in **both** your lab notebook and this submission sheet.

1 Pre-laboratory Verification

3E -- 1

3E -- 2

3E -- 3

3E -- 4

2 Laboratory Verification

3E -- 5

3E -- 6

3E -- 7

3 Deliverables

1. Copy the results table below (you may omit **0** values):

Base-2	Base-10	Calculated V_{out} (V)	Measured V_{out} (V)	$ (M - C)/C * 100\% $
0000	0	0		—
0001	1	0.333		
0010	2			
0011	3			
0100				
0101				
0110				
0111				
1000				
1001				
1010				
1011				
1100				
1101				
1110				
1111				

2. Explain what the results table represents:

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3. Staple a printout of the oscilloscope capture to the submission. Indicate the calculated magnitude and frequency of the signal:

Magnitude: _____ V

Frequency: _____ Hz