

LABORATORY 2

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



2 Laboratory Verification



3 Deliverables

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

		Calculated	IN	PUT	OUTPUT				
Base 2	Base 10	$V_{ m in}$	Measured	Level	Measured	Level			
		(V)	$V_{\rm in}\left({ m V}\right)$	(low/high)*	$V_{\text{out}}\left(\mathbf{V}\right)$	(low/high)*			
0000	0	0.000							
0001	1	0.220							
0010	2	0.440							
0011	3	0.660							
0100	4	0.880							
0101	5	1.100							
0110	6	1.320							
0111	7	1.540							
1000	8	1.760							
1001	9	1.980							
1010	10	2.200							
1011	11	2.420							
1100	12	2.640							
1101	13	2.860							
1110	14	3.080							
1111	15	3.300							

^{*} Based on IC datasheet values of $V_{\rm IH}, V_{\rm IL}, V_{\rm OH},$ and $V_{\rm OL}.$

2.	Ex	kpl	ain	wh	at i	is s	eer	on	the	e M	ſΑΊ	TL/	AΒ	plo	t of	fth	e re	sul	lts a	and	wł	at	the	res	ult	s ta	ble represents.
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3. Staple a printout of the MATLAB plot to this submission sheet.