Logic Gates II Worksheet Answer Key

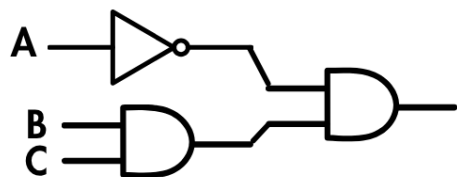A Logic circuit has two inputs being X and Y. Fill in all the possible combinations.

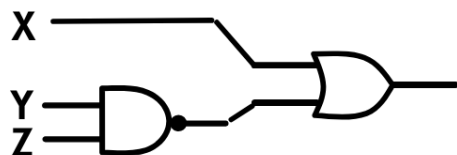| X	Y
1	1
1	0
0	1
0	0

A Logic circuit has three inputs being X, Y, and Z. Fill in all the possible combinations.

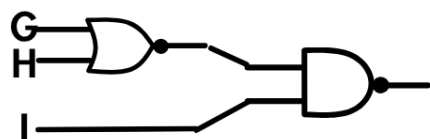| X	Y	Z
1	1	1
1	1	0
1	0	1
0	1	1
0	0	1
0	1	0
1	0	0
0	0	0

In this activity, you will create truth tables for logic gates that have three inputs. Make sure to reference your notes if you forget which symbols represent what gates!

A	B	C	Output
1	1	1	0
1	1	0	0
1	0	1	0
0	1	1	1
0	0	1	0
0	1	0	0
1	0	0	0
0	0	0	0

A	B	C	Output
1	1	1	1
1	1	0	1
1	0	1	1
0	1	1	0
0	0	1	1
0	1	0	1
1	0	0	1
0	0	0	1

A	B	C	Output
1	1	1	1
1	1	0	1
1	0	1	1
0	1	1	1
0	0	1	0
0	1	0	1
1	0	0	1
0	0	0	1

TeachEngineering

ncwit.org