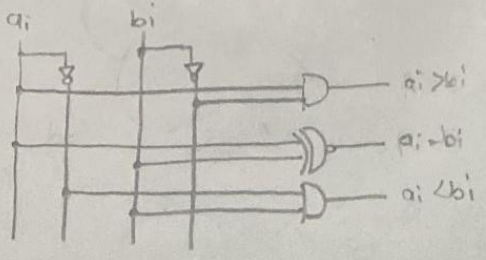
Yigit Bekdaz Gürsel
040180065

1-) 1-bit comparator



ai>bi ⇒

ai	bi	Y
0	0	0
0	1	0
1	0	1
1	1	0

$Y = a_i \bar{b_i}$

ai = bi

ai	bi	Y
0	0	1
0	1	0
1	0	0
1	1	1

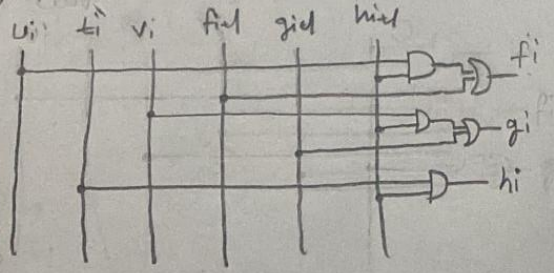
$Y = (a_i \oplus b_i)'$

ai < bi

ai	bi	Y
0	0	0
0	1	1
1	0	0
1	1	0

$Y = \bar{a_i} b_i$

2-)



3-)