

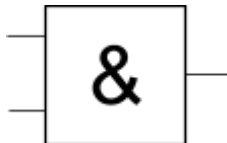
Digitalteknik MEKMEK01 EE21

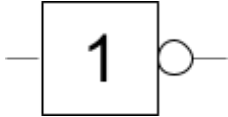
Max: 27p | E/C/A = 13/18/23

1. Skriv ditt namn (1p) _____
2. Fyll i de tal som fattas i tabellen (6p)

Binära tal	Decimala tal	Hexadecimala tal
110110	54	36
1000001	65	41
11111	31	1F

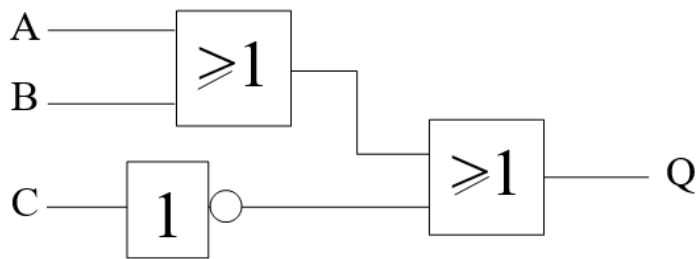
3. Fyll i det som saknas i tabellerna nedan (8p)

tNamn	AND															
Symbol																
Sanningstabell	<table><tr><th>a</th><th>b</th><th>y</th></tr><tr><td>0</td><td>0</td><td>0</td></tr><tr><td>0</td><td>1</td><td>0</td></tr><tr><td>1</td><td>0</td><td>0</td></tr><tr><td>1</td><td>1</td><td>1</td></tr></table>	a	b	y	0	0	0	0	1	0	1	0	0	1	1	1
a	b	y														
0	0	0														
0	1	0														
1	0	0														
1	1	1														

Namn	NOT						
Symbol							
Sanningstabell	<table><tr><th>a</th><th>y</th></tr><tr><td>0</td><td>1</td></tr><tr><td>1</td><td>0</td></tr></table>	a	y	0	1	1	0
a	y						
0	1						
1	0						

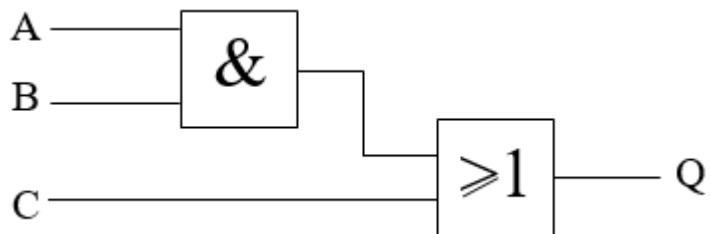
4. Skriv nätens booleska uttryck (4p)

a)



$$Q = A + B + C'$$

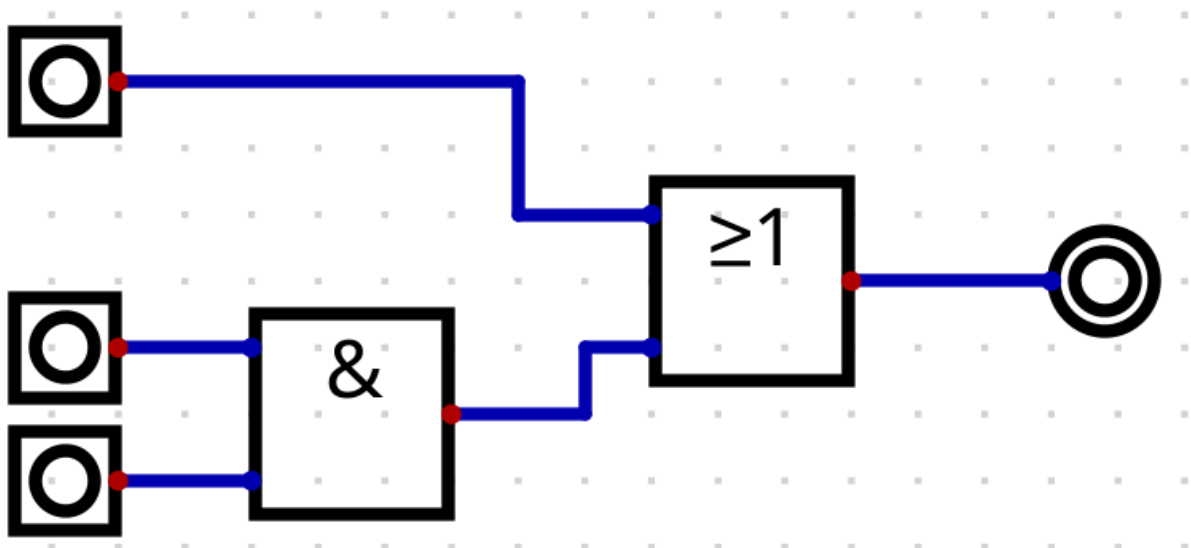
b)



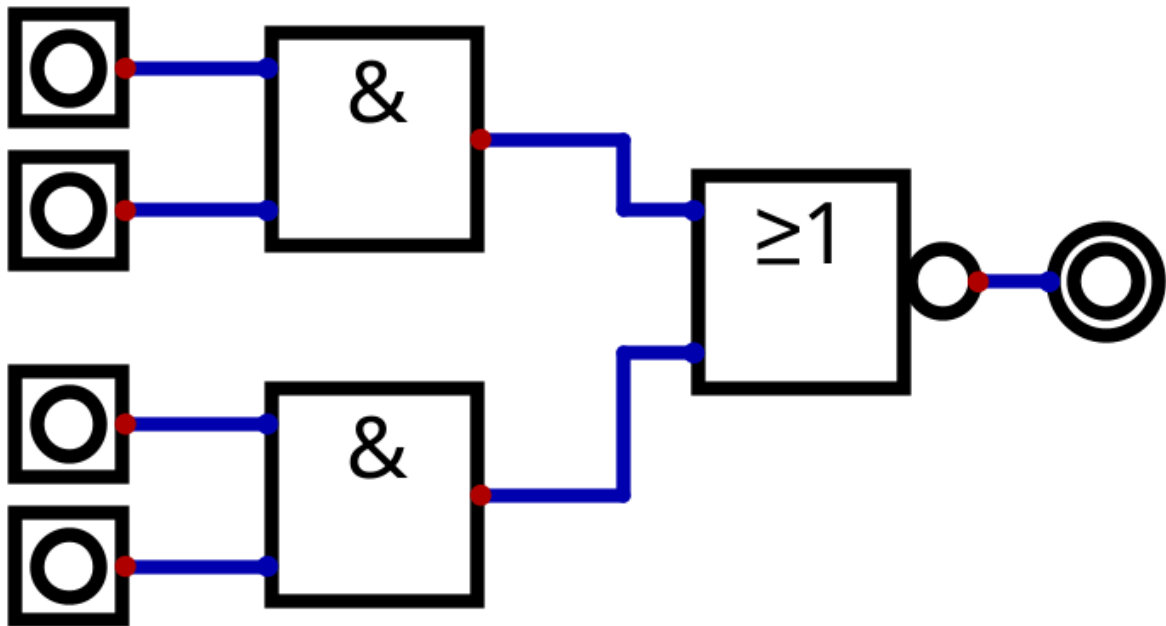
$$Q = AB + C$$

5. Rita grindnät för booleska uttrycken (6p)

a. $Y = A + BC$



b. $Y=(AB+CD)'$



c. $Y=(A+B+C)$

