

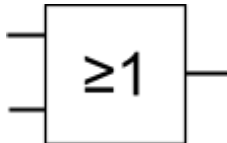
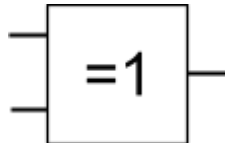
Digitalteknik MEKMEK01 EE21

1. Skriv ditt namn **(1p)** _____

2. Fyll i de tal som fattas i tabellen **(6p)**

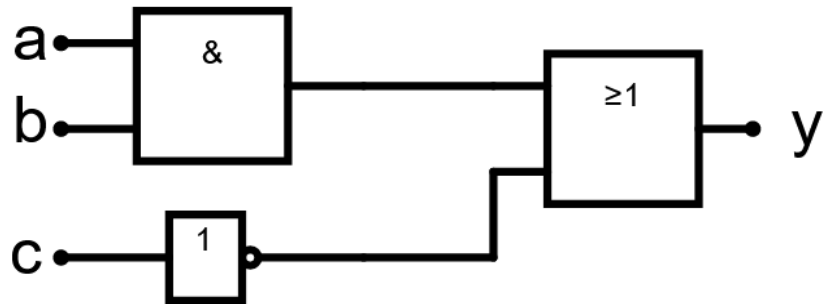
Binära tal	Decimala tal	Hexadecimala tal
10111	23	17
110100	65	34
11100	28	1C

3. Fyll i det som saknas i tabellerna nedan

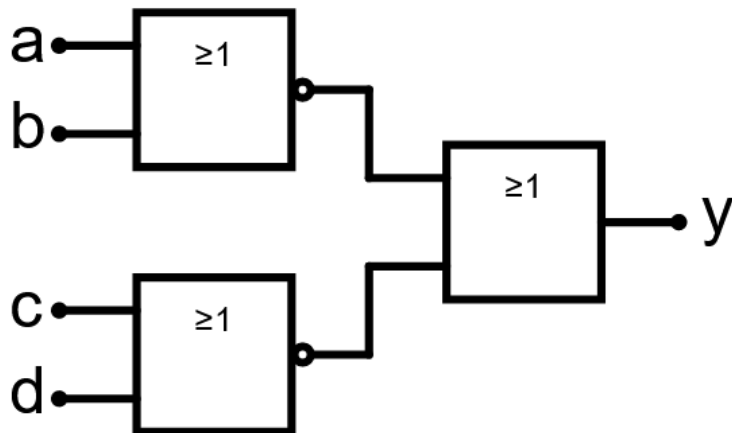
Namn (1p)	OR	Namn	XOR																														
Symbol		Symbol (1p)																															
Sanningstabell (4p)	<table><tr><th>a</th><th>b</th><th>y</th></tr><tr><td>0</td><td>0</td><td>0</td></tr><tr><td>0</td><td>1</td><td>1</td></tr><tr><td>1</td><td>0</td><td>1</td></tr><tr><td>1</td><td>1</td><td>1</td></tr></table>	a	b	y	0	0	0	0	1	1	1	0	1	1	1	1	Sanningstabell (4p)	<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>1</td></tr><tr><td>1</td><td>0</td><td>1</td></tr><tr><td>1</td><td>1</td><td>0</td></tr></table>	a	b	y	0	0	0	0	1	1	1	0	1	1	1	0
a	b	y																															
0	0	0																															
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4. Skriv nätens booleska uttryck (4p)

a) $y = ab + c'$

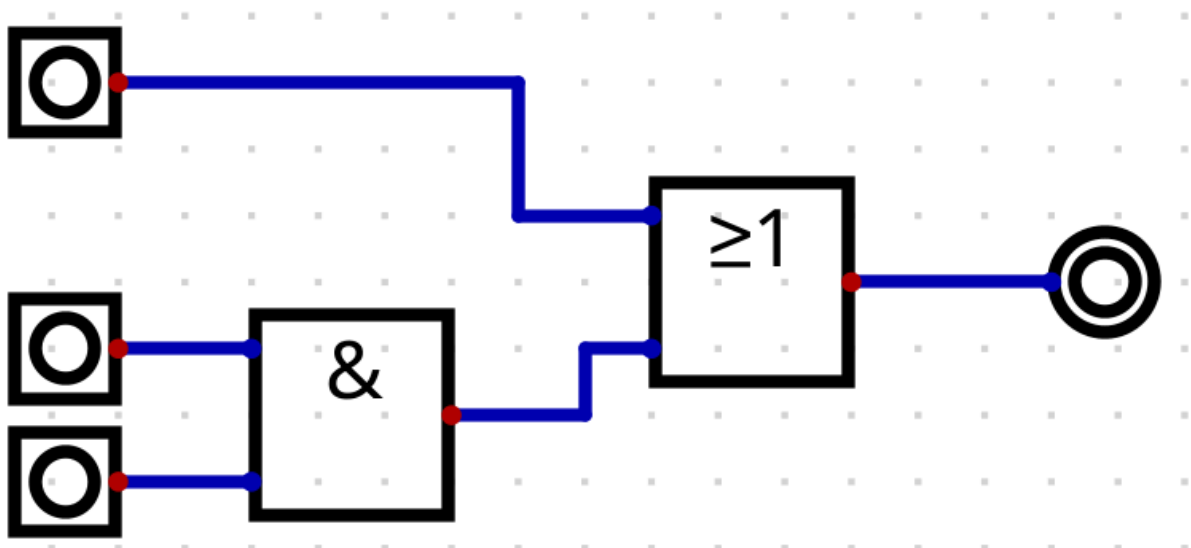


b) $y = (a+b)' + (c+d)'$

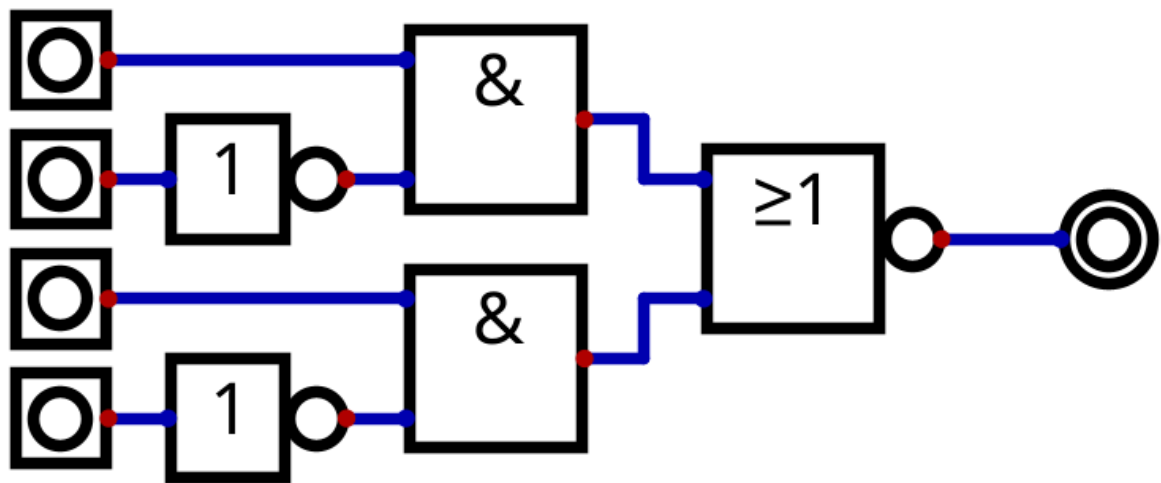


5. Rita grindnät för booleska uttrycken (6p)

a. $Y = A + BC$



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



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

