

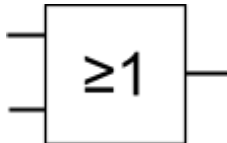
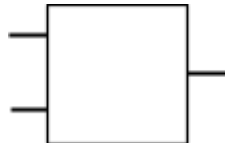
Digitalteknik MEKMEK01 EE21

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

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

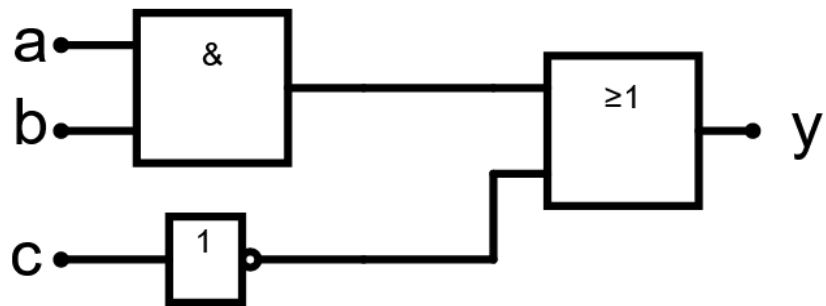
Binära tal	Decimala tal	Hexadecimala tal
10111		
	65	
		1C

3. Fyll i det som saknas i tabellerna nedan

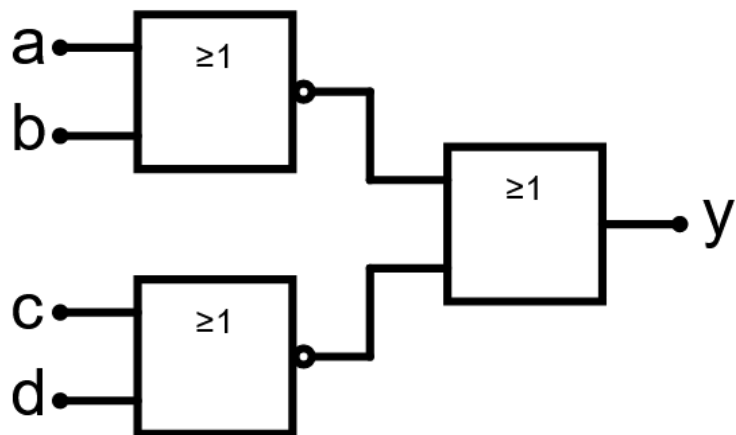
Namn (1p)		Namn	XOR																													
Symbol																																
Sanningstabell (4p)	<table><tr><th>a</th><th>b</th><th>y</th></tr><tr><td>0</td><td>0</td><td></td></tr><tr><td>0</td><td>1</td><td></td></tr><tr><td>1</td><td>0</td><td></td></tr><tr><td>1</td><td>1</td><td></td></tr></table>	a	b	y	0	0		0	1		1	0		1	1		<table><tr><th>a</th><th>b</th><th>y</th></tr><tr><td>0</td><td>0</td><td></td></tr><tr><td>0</td><td>1</td><td></td></tr><tr><td>1</td><td>0</td><td></td></tr><tr><td>1</td><td>1</td><td></td></tr></table>	a	b	y	0	0		0	1		1	0		1	1	
a	b	y																														
0	0																															
0	1																															
1	0																															
1	1																															
a	b	y																														
0	0																															
0	1																															
1	0																															
1	1																															

4. Skriv nätens booleska uttryck (**4p**)

a)



b)



5. Rita grindnät för booleska uttrycken (**6p**)

a. $Y = A' + BC$

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

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