

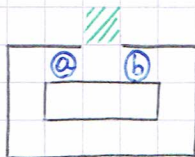
1)  $a + a \cdot b = a$   
distributivitate



2)  $a \cdot (a + b) = a$   
distributivitate x2



3)  $(a + b) \cdot (a + \bar{b}) = a$   
distributivitate x2 / idempotente



4)  $(\bar{a} + \bar{b}) + (\bar{a} + b) + (a + \bar{b}) = 1$   
asociativitate / comutativitate

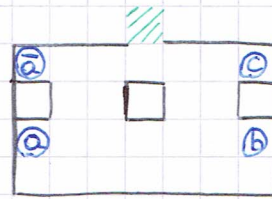


5) 1.  $(\bar{a} + b) + (a + \bar{b}) + (a + b) = 1$   
2.  $a + (\bar{a} \cdot b) = a + b$



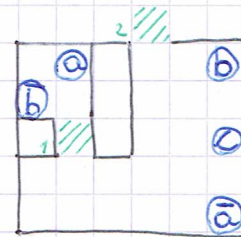
asociativitate  
distributivitate

6)  $(a + b) \cdot (\bar{a} + c) = a + b \cdot c$   
distributivitate / complementaritate



7) 1.  $ab + \bar{a}b + \bar{b}c + \bar{c}c = b + c$   
2.  $(a + b) \cdot (a + c) + (b + c) \cdot (b + a) + (c + a) \cdot (c + b) = a + b + c$

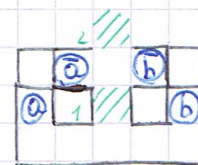
distributivitate / complementaritate  
distributivitate x2 / idempotente



7) 1.  $(\bar{b} + \bar{a}) \cdot (a \cdot c + \bar{b}) = \bar{b}$

~~$(b + c) + (c + d) (\bar{a} + d) \bar{c}$~~

1.  $a \cdot b$  distributivitate



8)  $c \cdot (b + c) + (\bar{c} + d) \cdot (\bar{a} + d) \cdot \bar{c} = c + d$   
distributivitate / complementaritate / idempotente



10) 1.  $(\bar{a} + b) \cdot (a + b + d) \cdot \bar{d} = b \cdot \bar{d}$   
2.  $(a \cdot b + c + d) \cdot a \cdot b = a \cdot b$   
3.  $a \cdot (b \cdot c + \bar{b} \cdot c + b \cdot \bar{c}) = a \cdot (b + c)$   
distributivitate / complementaritate

