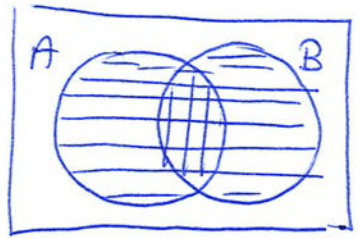
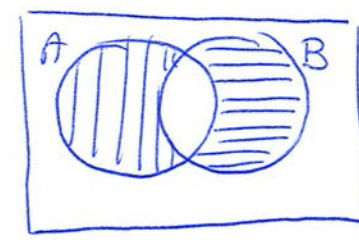


① a $A \setminus B = A \cap B^c$

symmetrisch verschil: 10



$A \cup B \equiv$
 $A \cap B$ III
 verschil:
 alleen \equiv



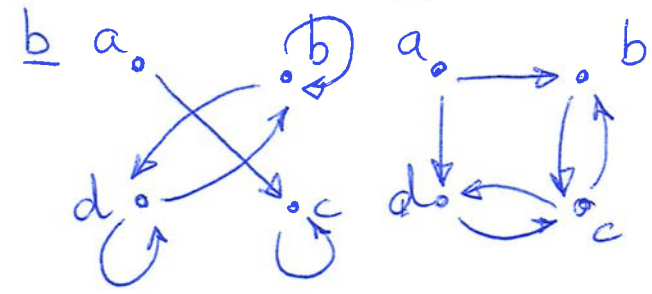
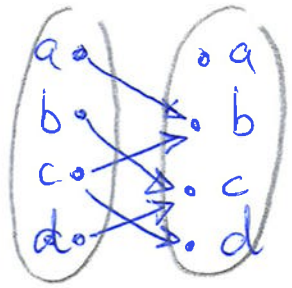
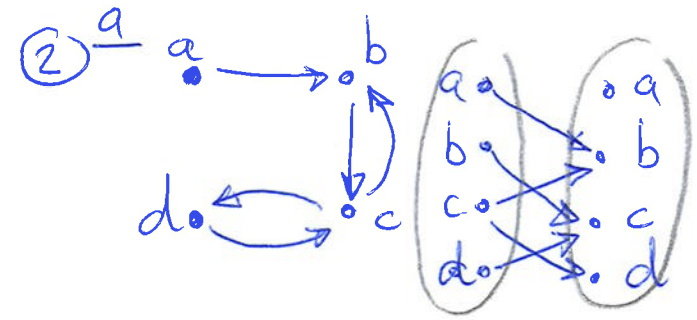
$A \setminus B$ IIII
 $B \setminus A \equiv$
 vereniging
 gearceerd

\equiv herschreven:
 $(A \cup B) \cap A^c =$
 $B \cap A^c$

gebieden
 gelyk

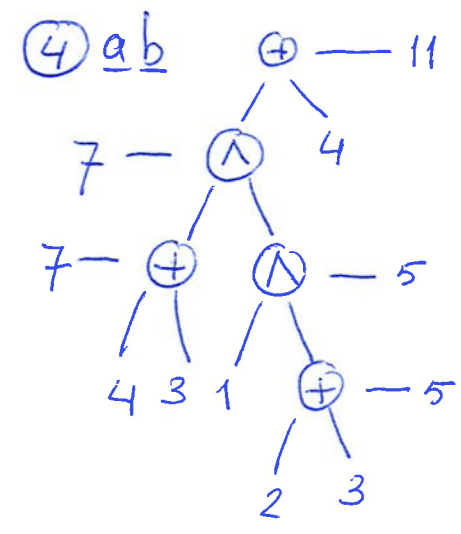
$(A \cup B) \cap A^c =$ distr.
 $(A \cap A^c) \cup (B \cap A^c) =$ complem.
 $\emptyset \cup (B \cap A^c) =$ nul
 $B \cap A^c$

$(a,b) \subseteq (c,d) \subseteq (e,f)$
 dan $(a,b) \subseteq (e,f)$
 want $a \leq c \leq e$ en $b \geq d \geq f$.

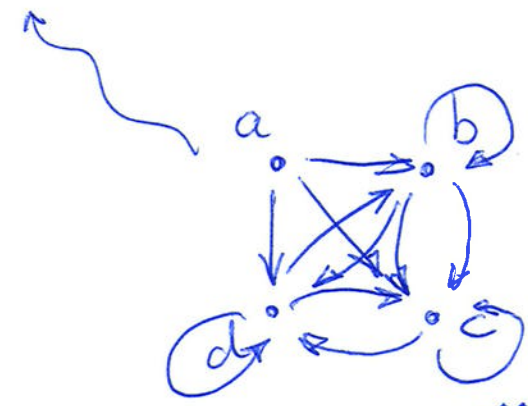


$\subseteq \{a, b, c, d\} \times \{b, c, d\}$
 alle paden (ter lengte ≥ 1)

③ tweetallen!
b reflexief $(a,b) \subseteq (a,b)$
 ja. $a \leq a$ en $b \geq b$
 antisym $(a,b) \subseteq (c,d)$
 en $(c,d) \subseteq (a,b)$ dan
 $(a,b) = (c,d)$
 ja. $a \leq c$ en $b \geq d$
 resp. $c \leq a$ en $d \geq b$
 dus $a=c$ en $b=d$
 transitief: ja



$\equiv f(\text{blad}) = 1$
 $f(\text{linceep}) = f(\text{links}) + f(\text{rechts})$



by ⑦ b als een brug (u,v)
 onderdeel van een cykel is
 verdwynen - geen paden,
 want er is een ander pad

9/3/15 FI1

5 $a \sum_{k=0}^{28} 3k-7 = \frac{29(-7+77)}{2}$

b basis $n=0 \quad a_0 = 2 = (-1)^0 + 2^0$
 $n=1 \quad a_1 = 1 = (-1)^1 + 2^1$ (klept)

inductiestap aanname klopt tm n.
 verifieer de formule voor n+1:

$a_{n+1} = a_n + 2a_{n-1} =$
 def aanname

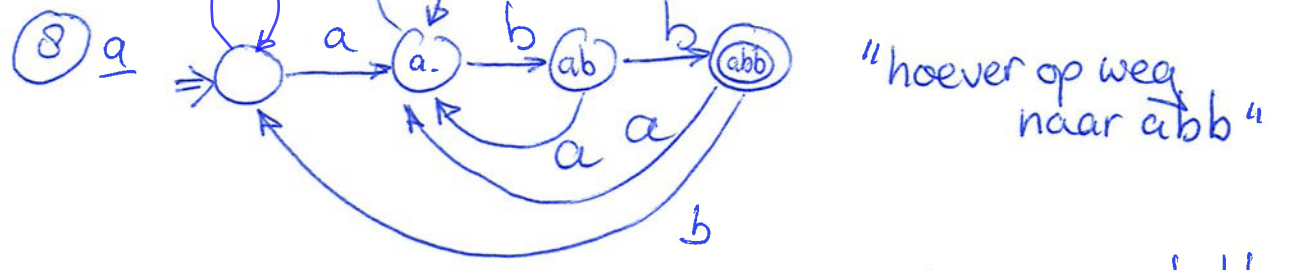
$(-1)^n + 2^n + 2 \cdot (-1)^{n-1} + 2 \cdot 2^{n-1} =$
 $(1-2)(-1)^n + 2 \cdot 2^n = (-1)^{n+1} + 2^{n+1}$ (oké!)

6 a

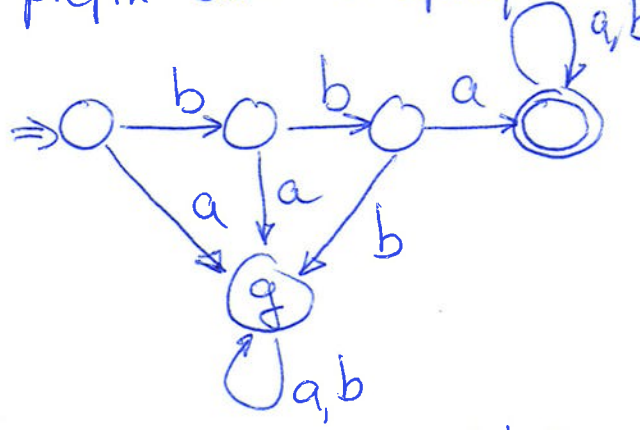
x	0	1	2	3	4	5	6	7	8	9	10	11
x ²	0	1	4	9	4	1	0	1	4	9	4	1

(tabel is symm: $(k-x)^2 = k^2 - 2kx + x^2 \equiv x^2 \pmod{k}$)
 $\frac{b}{17} \equiv 5 \quad 17^{331} \equiv 5^{331} \equiv (5^2)^{165} \cdot 5 \equiv 1 \cdot 5 = 5$
 $4^k \equiv 4 \quad 4^{122} \equiv 4 \quad \text{dus } 17^{331} + 4^{122} \equiv 5 + 4 = 9$
 voor alle k

7 $a \quad n-1 \leq e \leq \frac{n \cdot (n-1)}{2}$ compleet
 boom



b prefix bba - spiegelbeeld: begint met bba



$\subseteq \{a,b\}^* \cdot \{abb\} \quad (a+b)^* abb$
 $\{a,b\}^* \cdot \{a, ab, bbb\} \cup \{\lambda, b, bb, \dots\}$
 verkeerd eind. te kort
 complement: eindigt niet op abb