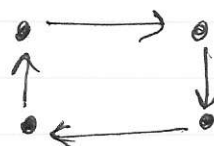


L 2M 23/10/09



Domain:  $A = \{1, 2, 3\}$   $c^M = 1$   $d^M = 2$   $P^M = \{1, 2\}$

(b) Tegenmodel met 7 elementen:  
 $R$  aangegeven met pijlen.



Alternatief: model met oneindig domain:  
 Domain:  $\mathbb{N} = \{0, 1, 2, 3, \dots\}$   
 $R^M = <$

⑤ (a)  $\exists x Kxa \wedge \neg \exists x Gax$

(b)  $Tc \wedge \forall x ((Kxa \wedge x \neq c) \rightarrow \neg Tx)$

alternatief:  
 $\forall x ((Kxa \wedge Tx) \leftrightarrow x = c)$

(c)  $Kba \wedge Kca \wedge \neg \exists x (Kxa \wedge x \neq b \wedge x \neq c)$

⑥ (a)  $\neg \exists y_1 \exists y_2 \exists y_3 B(y_1, x, y_2, y_3)$

(b)  $\exists y_1 \exists y_2 \exists z (B(y_1, z, x, a) \wedge B(y_2, z, x, a) \wedge y_1 \neq y_2)$