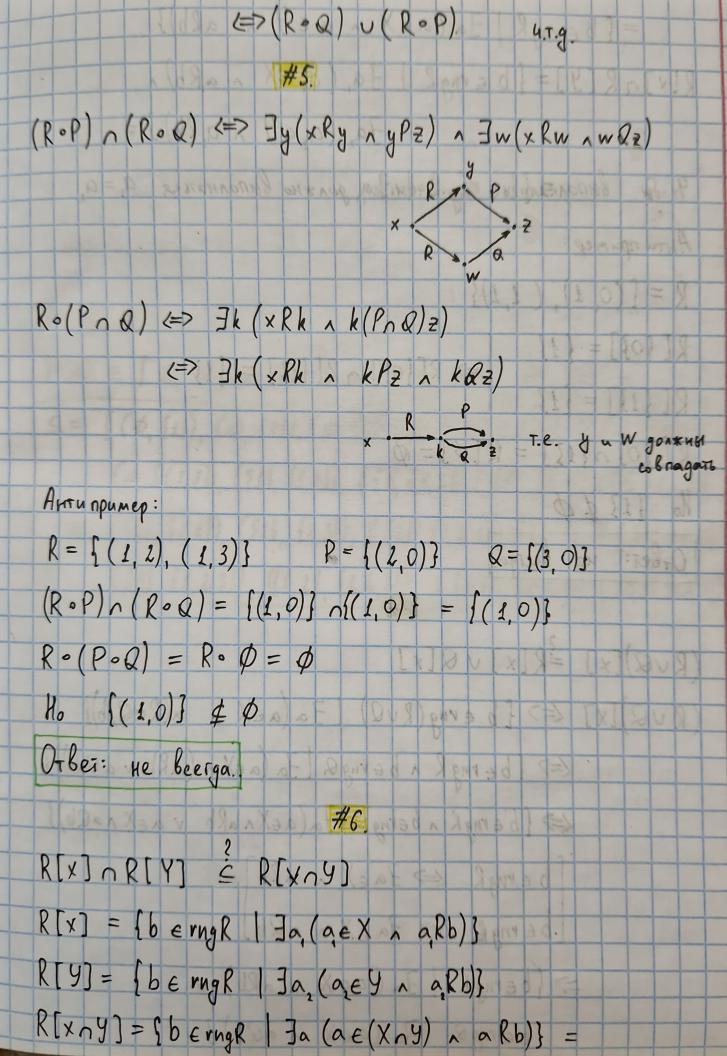


xRy => xly => R'[X] + MNOXECTBO HUCEN, HA KOTOPHE

genut CR X x Ry => y |x R[{±2, 15, 42}] = {1, 2, 3, 4, 5, 6, 7, 12, 14, 15, 21, 42} #4. R. (QUP) => => => (xRy x y(QUP) =) => =y (xRy ~ (yQZ v yPZ)) (=> => => (xkynyQZ vxkynyPZ)) => Jy (xky ny Rz) v Jy (xky ny Pz)



= [berngl | Ja (aex , aey , alb)] R[x]nR[y]= {berngr | Ja, (a, ex , a, Rb), 7a, (a, e y n a, Rb) 3 Утобы выполнялось включение, должно выполнаться а = а Анти пример: $R = \{(0, 1), (1, 1)\}$ R[[0]] = [1] => $R[[0]] \cap R[[1]] = [1]$ R[{13] = {13 $R[\{0\} \cap \{1\}] = R[\phi] = \phi$ No [1] & Ø Orbei: ne berga. 1(0) 1) = #7,1) 1 (0,1) = (00) $(R \cup Q)[x] \stackrel{?}{=} R[x] \cup Q[x] \qquad \qquad 0 = 0 \quad \Rightarrow = 0$ (RUQ)[X] (=> {b erng(RUQ) | 7a(aeX ~ a(RUQ)b)} (=) | berngk v berngel | Fa (aex n (akb vakb))] (=> {berng R v berng R | fa(a EX rakb v a EX rakb)} berngk => 3aeX a alb] DE rng & (=> Fa EX n a Rb) => {berng R | 3a (aeX naRb) v bernge (Ja (aex naeb))

R[X]VR[X]

4.T.g.

Orber: boerga

#2.

$$A = \{1, 2, 3\}$$

 $P(A) = \{ \phi, \{1\}, \{2\}, \{3\}, \{1,2\}, \{1,3\}, \{2,3\}, \{1,2,3\} \}$

$$\subseteq = \{ (\emptyset, \{1\}), (\emptyset, \{2\}), (\emptyset, \{3\}), (\emptyset, \{1,2\}), (\emptyset, \{1,3\}), (\emptyset, \{2,3\}), (\emptyset, \emptyset, \emptyset, \{2,3\}), (\emptyset, \emptyset, \emptyset, \{2,3\}), (\emptyset, \emptyset, \emptyset, \emptyset, \emptyset), (\emptyset, \emptyset, \emptyset, \emptyset), (\emptyset, \emptyset, \emptyset, \emptyset), (\emptyset, \emptyset, \emptyset, \emptyset), (\emptyset, \emptyset$$

$$(\{3\}, \{1,2,3\}), (\{1,2\}, \{1,2,3\}), (\{1,3\}, \{1,2,3\}), (\{2,3\}, \{2,2,3\}))$$