高数数学 第二次作业

6. (1) PAQVRVS 11 VQR VVQRS PQRVSV - P VVQRS (2) PM7R > PVQ 波兰式:↔AP7RVPQ 遂城芝式:PR7∧PQV↔ → APTRYPQ PRTAPQV (3) 77 PV (WAR)V7Q 77PV(WAR)V7Q 波兰式:VV77PAWRTU 选度芝村:P77WRAVQ7V VV77PAWR7Q POTWKAVQTV

1. (1) $P \rightarrow (Q \land R) = \neg P \lor (Q \land R)$ $= (\neg P \lor Q) \land (\neg P \lor R)$ $= (P \rightarrow Q) \land (P \rightarrow R)$ (2) $P \rightarrow Q = \neg P \lor Q = Q \lor \neg P = \neg \neg Q \lor \neg P = \neg Q \rightarrow \neg P$ (3) $((P \rightarrow \neg Q) \rightarrow (Q \rightarrow \neg P)) \land R = (\neg (\neg P \lor \neg Q) \lor (\neg Q \lor \neg P)) \land R$ $= ((P \land Q) \lor \neg Q \lor \neg P) \land R$ $= (P \lor \neg Q \lor \neg P) \land R$ $= (T \lor \neg Q) \land R = T \land R = R$

2、由丁号: A=(TPハマロ)V(TPハロ)V(Pハマロ)=moVm,Vm2 B=(マPハマロ)V(Pハロ)=moVm; C=マPハマロ=mo 由F号: A=マPVマロ=Mo B=(PVマロ)ハ(マPVロ)ハ(スPVマロ)=MonM,ハM2 C=(PVマロ)ハ(マPVロ)ハ(スPVマロ)=MonM,ハM2

3. ① 尼起 PT $\alpha = \tau(P \wedge Q) = \tau P \vee \tau Q$ 放 $\tau P = \tau P \vee \tau P = P \uparrow P$ $\tau P \vee Q = \tau(\tau P) \vee \tau(\tau Q) = \tau P \uparrow \tau Q = (P \uparrow P) \uparrow (\tau Q \uparrow Q)$ $\tau P \wedge Q = \tau(P \uparrow Q) = (P \uparrow Q) \uparrow (P \uparrow Q)$ $\tau P \wedge Q = \tau P \vee Q = \tau P \vee \tau \tau Q = P \uparrow (\tau Q) = P \uparrow (Q \uparrow Q)$ $\tau P \wedge Q = (P \wedge Q) \vee (\tau P \wedge \tau Q) = (\tau P \wedge Q) \uparrow (\tau \tau P \wedge \tau Q)$ $\tau = (\tau P \vee \tau Q) \uparrow (\tau \tau P \vee \tau \tau Q)$ $\tau = (P \uparrow Q) \uparrow (\tau P) \uparrow (\tau Q \uparrow Q)$ $\tau = (P \uparrow Q) \uparrow (\tau P) \uparrow (\tau Q \uparrow Q)$

② P≠2 P √ Q = ¬(P ∨ Q) = ¬P ∧ ¬Q ¬P = ¬P ∧ ¬P = P ↓ P P ∨ Q = ¬(P ↓ Q) = (P ↓ Q) ↓ (P ↓ Q) = (P ↓ P) ↓ (Q ↓ Q) P → Q = ¬P ∨ Q = ¬(¬P ↓ Q) = ¬(¬P ↓ P) ↓ Q) = ((¬P ↓ P) ↓ Q) ↓ ((¬P ↓ P) ↓ Q) P ↔ Q = (¬P ∧ Q) ∨ (¬P ∧ ¬Q) = (¬P ↓ ¬Q) ∨ (¬P ↓ Q) = ¬((¬P ↓ ¬Q) ↓ (¬P ↓ Q)) = ¬((¬P ↓ ¬Q) ↓ (¬P ↓ Q)) = ((¬P ∤ ¬P) ↓ (Q ↓ Q)) ↓ ((¬P ∤ P) ↓ (Q ↓ Q)) ↓ ((¬P ∤ P) ↓ (Q ↓ Q))

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