页

数 学 作 业 纸

班级: 计 01 各选訊 姓名: 第 / 编号: 2020010869 1. (1) ANB= { 0.25 R = { <0,0>,<0,2>, <2,0>,<2,2>} (2) R= {<4,2>,<1,1>} 2. AUB = { <1,2>, <1,3>, <2,4>, <3,3>, <4,2>} AnB = { <2,4>} dom(A) = {1,2,3} dom(B) = { 1,2,4) ran(A)={2,3,4} ran(B) = { 2,3,44 dom(AUB) = { 1, 2, 3, 49 ran (ANB) = { 44 3. x ∈ dom (RUS) <=> (∃y) (<x,y > ∈ RUS) <=> (34) (<x, y> ER V <x,y> eS) <=>(3y)(<x,y> eR) V(3y)(<x,y> eS) <=> X = dom (R) V x = dom (S) (=) x ∈ dom(R) U dom(S) 放 dom(RUS) = dom(R) Udom(S) xfbx: x & dom (RNS) <=> (3y1(<x,y) & RNS) <=> (Zy) (<x,y> ERA <x,y> ES) ⇒ (3y) (<x,y> €R) / (3y) (<x,y> €S) L=> n Edom(R) A x Edom(S) (=> x & dom(R) a dom(S) the don (RAS) = dom (RIA dom (S) 4. A= {1,2,39, 有关系 23=512 种 IAI=n, 有美全 2m2 种. J. AxB = { < a,d > , < b,d > , < c,d > } R. = \$ Rz = {<a,d> } Rs = {<b,d>} Ru = {<c,d>} Rs = {<a,d>, <b,d>} R6= {< a,d>, <c,d>} R7 = { < b,d>, <c,d>} R8 = { <a,d>, <b,d>, <c,d>} 6. / < x , , x , x , x = << x , , x , x , x >

< x . , x2 ... , xn> = < < x . , x2 ... , xn=17 . Xn>

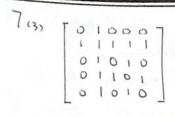
数 学 作 业 纸

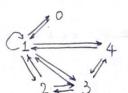
班级: 计01

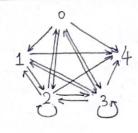
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第 2 页







10. 对 V < x,y>, < x,y> ∈ Ro(SUT)

<=> (∃≥) (<x, ≥> ∈ SUT ∧ ⟨₹, y> ∈ R)

<=> (32) ((<x,2>ES V <x,2>ET) A < 2,4>ER)

<=> (32) ((<x,2> eS A < 2,y> eR) V (<x,2> eT A <2,y> eR))

<=> (32) (2x,y> EROS V <x,y> EROT)

<=> <x,y> ∈ (RoS)U(RoT)

the Ro(SUT) = (RoS)U(RoT)