3 (a) M = 1R NO1 (C) M3 = [a, B, C, de a XR14 => 1x-41 =1 (6) M2 = P(10,6,C3)= (0, 501, 167, 501, 1067, 1067, 18C3, 10603) R2 = " = " properties CEX R, CEX CEX Ry CEX reflexive #=rock irreflevive 101=1 x=6 y=5 x = c y = a coreflexive x. 0 4=594 x= 597 Symmetric 4= { 967 x=6 y=5 antisymmetric X=151 asymmetric x=6 4=5 9= 567 transitive x=0 g={q}-{q}-198} antitransitive semiconnex x= 20,81 4=8 4 = 8 0.64 x=6 y=8 connex x=19,64 4=9 x= 1 66 C 9 left Euclidean 4=9 x=6 X= rock C = C 4-2=5 Cisson right Euclidean x = 9 X=MOCK 9=19 0=181 9=d c=B y=2-paper dense 4=8 Nº2 (a) True (d) True YXEM XRXUXSX YXEM XRX, XSX, yaux Buout (X,X) ER que xxeM (x, x) ER 4 (x,x) ES YXEM (X,X) E(RUS) (x,x) ES FreM: (xx) e (R1S) (e) True (6) True 1 cyrcu LOT odyn nap ¥ (x,4) ∈ S => (x,4) ∈ SU R YX (X,X) ER = (X,X) &S A ZHQZUT (G,X) ESUR (TOME) AHOLOGUMO C 12 ∀x,y (x,4)€12 => (x,y) &S Дия инобой изнагальной параг. RNS=0; Ø-odragaet chou chouse (verse gourne orpanioe) Cuatule purmas eis tunggs ne

· Monogaem "

2 cuprais Ein oduque repor (f) False Eun (x,y/e S 4 (x,y/eR, mo R=[(9,8), (p,d), (dg), (p, 9) } S={B,g}, (m,c), (c,s), (s,w)4 (yx) es 4 (4x) ER 3 RVS ve cyclembyem napor (a, g) V(x,y) e(sor) (y,x) e(sor) RUS-notransitive (C) True 2rg 1) Écie B repernence Rus rangeaemes Dues 1 graneum no ou pargumentes Tix versos gexosome espannice (ner vous propringes)

2. Écie B reperencien 72 predictante, no \$\frac{1}{2} \times \frac{1}{2} \times \times \tau \times \frac{1}{2} \times 3. Y xyz ((x,y) E(Rns) ~ (y,z) E(Rns): T.K R- rpayurubus 4 XKy 1 YR2 => XRZZ T.K S- Tpayurubus mo XSy 1 YSZ => XSZ /=> (X,Z) E (R1S) [ROS-transitive] 779 Noz ARM => 1A(=113) (a) reflexive T.K | Al = 1Al => ARA Symmetric T.K eun (+1= [h], mo |ns|=141=> 3RA transitive 7.4 /At=131 4 /3/= /C/, no /A/=/C/=> (ARC) » R- отношение эквивалентности { 64 | { 0, 8, 6 } 28 ch | { 6 8 } 6 6 4 } [6 8] (la Bcd) [287 EBC4 Scot] lach leds ich W 1624 104 Jac(A,B) = 1ANB1 A Ro B => Jac (A,B)70 Ma 0-0,25



