NP Nº5	Exun U	
Bapuarin 4	)	8trp
17 . 1 a B c d		
outre 6 6 d a 6		
	a, 8, 5d	
Rpolepus на ассоцианивность попугруппу ((x.k)·z	$=x\cdot(k\cdot z)$	Yx, Z6)
Dar k=a:		-
x.al.z a 6 c d x/a.z a.a=a a		
a-a-a a B c d a a	8 c	du
6.a=8 6 c d a 8 8 6 c c	c d a	
	× 8	e 0
Dre k=8:		2
x-8/-z   a B c d x/8-z B a = B B - B = C	8-c=d	b.d = a
ag=l & c a a B c a	00	8
8.6= c c a a b c d a a a b c d	e	d
DAR K = C:		
x.cl.z/a 8 c d x/c.z/c.a=c c.8=c	1 c.c=a	c-d=6
a.c=e e d a b	8 C	8
6, c = d d a 6 c 6 d a 6 c a 6 d a 6 c a 6 d a 6 c a 6 d a 6 c a 6 d a 6 c a 6 d a 6 c a 6 d a 6 c a 6 d a 6 c a 6 d a 6 c a 6 d a 6 c a 6 d a 6 c a 6 d a 6 c a 6 d a 6 c a 6 d a 6 c a 6 d a 6	c	d
Dre k=d:		
x-d\z a b c · d ×\d-z   d·a=d d·b=a	d-c-B	d-d=c
ci-ded d a B a	6	0
0.4-6 8 0 4 9 8	2	d
d'd=c c d a b c b c d	a	8
Monyrpynna acconsumrubua		
Mayrpynna acconsumrubua		

```
Hauger nognonyrpynny \langle a \rangle:

\langle a \rangle = \{a, a^2, a^3, ...\}, rge a^2 = a, a^3 = a, ...

\Rightarrow \langle a \rangle = \{a\}

New ugean:

[a] = S^1 = \{a\} \cup Sa = \{a, b, c, d\}

Postoniu ugean:

[a] = aS^1 = \{a\} \cup aS = \{a, b, c, d\}

Doycmoportuul ugean:

[a] = S^1 = \{a\} \cup aS = \{a, b, c, d\}

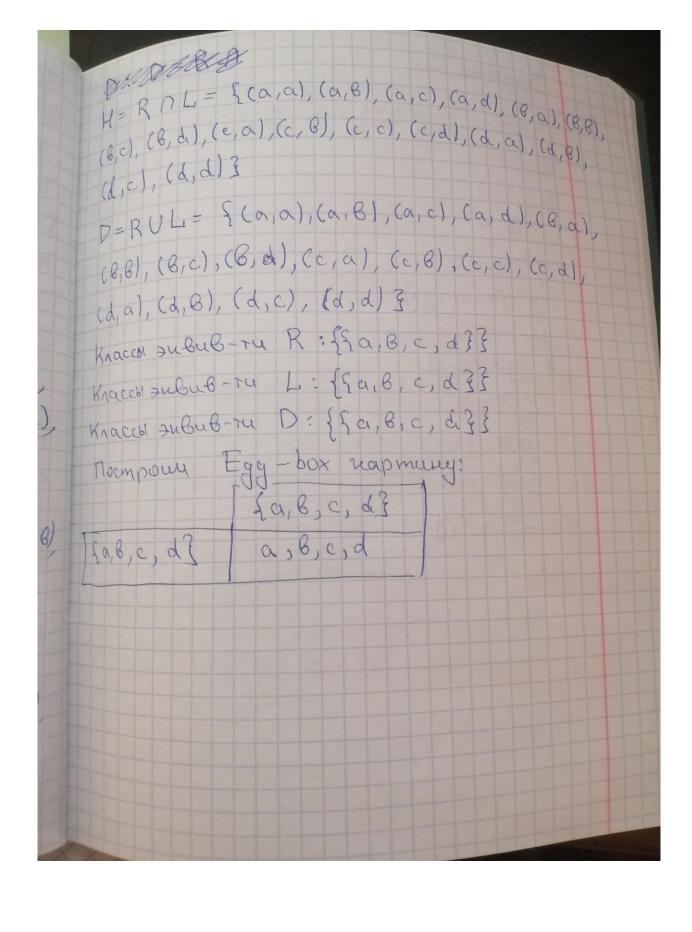
ord (a) = 1 (πορεσον элемента (a))
```

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Haugen nognonyrpynny <8>:

The second of th
```

Haugen nognonypynny <c>: Hauge 10, c2, c3, -3; rge c=a, c=c, c4a => < c> = {a,c} lesser ugeans (c) = S'c = {a,c} USc = {a,6,c,d} Trabsul ugean: (c]=cS'= {a,c}UcS = {a, B, c,d} Doycoopourui ugean: 107= S'es'= {a,c}U Ses = {a,B,c,d} Haurgen nognonempynny <d>: (d)= (d, d2, d3,--3, rged=e, d3=B,d=a,d5d => <d7 = {a, 6, c, d} Messur agean: [d)= 5d = {a, B, c, d} USd = {a, B, c, d} Roobsin ugean: (d]= dS1= Sa, B, c, d} U dS = Sa, B, c, d} Descriportan ugear : [d]= 5°d5°= {a,B,c,d} U 5d5 = {a,B,c,d} ord(d)=4

Bagarne 2 0 a 8 c d a a B c d 16 8 6 c d a c cdab d da 6 c Omnombreue Towner. R: (x,y) 6R (x] = (y] => > R= f(a,a), (a,B), (a,c), (a,d), (B,a), (B,B) K (B,c), (B,d), (ac,a), (c,B), (c,c), (c,d), (da) K (d, B), (d,e), (d,d)? > R= f (a,a), (a,B), (a,c), (a,d), (B,a), (B,B) (d, 8), (d, e), (d, d) } L: (x,y) = R <=> [x) = [y) => => L= { (a,a), (a, B), (a, e), (a, d), (B, a), (B) (B, c), (B, d), (c,a), (c, 81, (e,d), (d, a), (d, 8), (d, c), (d, d) ? 1: (x,4/E) => [a] = [B] => = = {(a,a), (a,B), (a, a), (a,d), (B,a), (B,B) (B,c), (B,d), (c,a), (c,B), (c,c), (c,d), (d,a), (d,B), (d,c), (d,d) 3



3agarne 3 S=2 x, y: xy = yx, x = y, y = x> x(Bun) y (Bur) XZY y2 (Bun) xy(bun) yxzxy yyx=yxy=xyy(BKN) yyy = X  $yxyx = xxy = y^2$ Xyy = xyyx = xyxy = xxyy = yyy = xxyyy = xx = y > S= {x,y, xy, yy, xyy}

Tadhuya Kany: Tadnuya K > nu:

X y xy y² xy²

X y xy y² xy² x

y xy y² xy² x

y xy y² xy² x

y xy xy xy xy y

xy xy² x y xy y²

xy² xy² x y xy y² Onn-ie Pourca: R: (a, B) ER (a) = (B] => =>  $R = \{(x,y), (x,x), (x,xy), (x,y^2), (x,xy^2)\}$ (y,x),(y,y),(y,xy),(y,y2),(y,xy2), (yy, x),(xy,y),(xy,xy),(xy,y²),(xy,xy²), (y,x,(y,y),(y,xy),(y,y,y),(y,xy)) (xy², x), (xy²,y), (xy²,xy), (xy²,y²), (xy³,xy²)} L: (a,8) EL (> [a) = [B) Li oygem conagail c R & garerou cryval J: (a,81e J => [a]=[8] V Syger coronagars e L u R l'garmon enjude

H=RNL Hoygem cosnagaso c R u L & garenous cryuas D=RUL poygem cobragais CRUL & games enjear Knaccol sub-ru R: \$8423, 4553 { {x,y,xy,y2, xy2}} Knaccol sub-ru D: { { x,y, xy, y2, xy2}} Mocmpoure Egg-box kapmury: {x,y,xy,y2,xy2}  $\{x_1y_1, xy_1, y_1^2, xy_2^2\}$   $\{x_1y_1, xy_2, y_1^2, xy_2^2\}$