Jakub Knyston, Liste 2

29d. 1.

2 at. nie uprost, je p. 1+q. √2=0, ale p≠0 lub q≠0 (p,q ∈ Q).

Wholy goly:

I. p +0: 2 = - \frac{1}{12}

II: 1+0: = - 52 \$ 9

Zatem p=q=0, ugli d 1, 524 ln2 (nod Q).

Lad. 2.

My permyo weW

(a) $F(0) = F(0) \cdot v = 0 \cdot F(v) = 0 \cdot \omega = 0$

- 2. Weiny VIWEF [101]. Whely Holtflul= F(V+W)=F(V)+F(W)=0+0=0, wigh V+W EF-1 [201].
- 3. Weing V & F-1 [Loh] i 9 & K. Wtedy F(TV) = 9. F(V) = 9.0 = 0, wight

2 stem F-1 [(0)] < V.

2al.3.

$$B = \{ (0), (1), (1) \}, A = \{ (0), (1) \}$$

$$(0) = (1) - \{ (0), (1), (1) \}$$

$$(0) = (1) - \{ (0), (1), (1) \}$$

$$(0) = (1) + \{ (0), (1), (1), (1) \}$$

$$(1) = (1) + \{ (0), (1), (1), (1) \}$$

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Zaul. 4.
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dim R=2, vigc max 1/A1: A = X5=2.

· X = 7 A = R2 | A | 629 i | A = R2 | A | 629 = C, winc | X | 6 L.

· (319), (6); XER (161) = X : | (18), (d): XERKO4) = [, winc | X | Z .

Zatum | X = L.

Maksymolma dt. Tan cucha wyrosi 3: np. p = {(b) + = 1(b), (?)}.

Nie uzyskamy dtuiszego Trncadza, gdyż zbiory z X migh moc 0,1 hub 2,
a u tym przypadku c zwiąkoza noc.

-9d.5.

$$|11) F(|y|+|x|) = F(|x+x|) = (2(x+x') + 3(y+y')) = (2x+2x' + 3y + 3y') = (-1x+x') + 5(y+y') = (-1x+x') + 5(y+x') + 5(y+x')$$

$$= \left(\frac{(2x+3y) + (2x'+3y')}{+(-x+5y')} = F(y) + F(y').$$

$$|2) F(x(ty)) = F(xy) = (2xx + 3xy) = x(2x + 3y) = x(xy) = x($$

2ad.7.

Whadh Weimy standardown bary K2 try {(0),(1)). Wedy

$$F(y) = F(x|0) + y|1) = x \cdot F(0) + y \cdot F(1) = x \cdot ax + by \quad or = x \cdot f(0) + y \cdot f(1) = x \cdot ax + by \quad or = x \cdot f(0) + y \cdot f(1) = x \cdot ax + by \quad or = x \cdot ax + by \quad or$$

29d.3.

X & Lim (Au B) Z=7 X & { Express ty. y: prawie wsystlic ty=0} <=>

~=> XE Lin 4 + Lin B)

A = { (6)} B = { (64)

Lin (AnB) = Lin p={(0)}

Lin A 1 Linb = 1 + (1) + telly

2ad. W.

VEETING WW E

Nich F: V-7W. Weimy w, W & W.

F jest bijekeja where ist. VIV eV tie F(V) = wi F(V') = w'.

$$= V + V' = F^{-1}(w) + F^{-1}(w')$$