Ref:

"C"
$$x \in A = x = \frac{\alpha+1}{2\alpha+1} = \alpha \in \mathbb{R} \setminus \frac{3-\frac{1}{2}}{3}$$

$$X = \frac{1}{2}$$
?

$$\frac{a+1}{2a+1} = \frac{1}{2}$$
 (=) $2a+2 = 2a+1$ (=) $1=0$ Fals

$$b = \frac{a+1}{2a+1} = 2ab+b = a+1 = 0$$

(=)
$$2ab-a = 1-b$$
 (=) $a(2b-1) = 1-b$ (=) $a = \frac{1-b}{2b-1}eR$

$$a = -\frac{1}{2b} = \frac{1-b}{2b-1} = -\frac{1}{2b} = \frac{1-b}{2b} =$$

2. Côte elemente ou multimea:

$$A = \frac{3}{2} \times e \oplus 1 \times = \frac{m^2 + 1}{2m^2 + m + 1} > m \in \{1, 2, ..., 10003\}$$

Ref.

$$\frac{3w_{5}+u+1}{w_{5}+1} = \frac{3w_{5}+w+1}{w_{5}+1}$$

$$= 5w_3 w_3 + w \cdot w_3 + yy_3 + yw_3 + w+x$$

$$(=) 5w_3 w_3 + w \cdot w_3 + yy_3 + tw_3 + w+x =$$

$$(=) \quad uu \cdot (u - uu) + (uu - uu)(uu + uu) + (uu - uu) = 0$$

$$(=) \quad uu \cdot u_3 - uu \cdot uu_3 + uu_5 - u_3 + uu - uu = 0$$

$$(m-m) [mm - (m+m) - 1] = 0$$

$$m-m=0 = 0 = 0 m=0$$

$$mm - (m+m) - 1 = 0$$

$$mm - (m+m) - 1 = 0$$

$$mm - (m-1) - 1 = 0$$

$$mm - (m-1) - 1 = 0$$

$$mm - (m-1) - 1 = 0 = 0 = 0 (m-1)(m-1) = 2$$

$$m = 2 \qquad 0 = 1 \qquad m=2$$

$$card (A) = \frac{2^{2}+1}{m=2} = \frac{2^{2}+1}{2^{2}+2+1} = \frac{2^{2}+1}{2^{3}+3+1} \qquad f(2) = f(3), f(4) = \frac{14}{34}$$

$$\frac{2^{2}+1}{2 \cdot 2^{2}+2+1} = \frac{2^{2}+1}{2^{3}+3+1} \qquad f(2) = f(3), f(4) = \frac{14}{34}$$

$$3. \quad (31N+2) \cap (5N+1) = 15N+11.$$

$$2^{2} \quad x \in C = 0 \qquad x = 15m+1 < 15m+11.$$

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$$3$$

5. Se da multimea 31,2, m3 = A.

a. Câti multiplie de 5 sunt in 4? b. Côte mu dim A sunt divizible cu 2 & 3?

Dat ou 2 sau 3?

c. Côte mr. dun 4 mu sunt divisible au 2 rous?

Rey:

 $a \cdot \left[\frac{m}{5}\right] \left(=\left[\frac{m}{5}\right]\right)$

b. 2 63: [m]

3 pour 3: [2] + [2] - [2]

C. K= [m] + [m] - [m] mr. div. cu 2 Nau 5 Vol. ceruta m-K.

6. Câte mr. de forma x2, x3 sau x5 se aflà in mulyimea 31,2,.., 10633

Ret:

A: X2 5106 => X 5 1000 - 1000 cox.

B: X3 5106 => X 5100 - 100 mg.

C: X5 \le 10\hat{a} => X \le 15 - 15 mm.

| AUBUC| = | Al+ |B|+|C| - |ANB|-|ANC|- |BNC|+|ANBOC|

ANB: X6 => IANBI=10

Anc: X10 => | Anc| = 3

x10 ≤ 106 (=) x5 ≤ 103 =>

Bnc: X'5 5106 => X5 5102 => 18ncl=2

ANBAC: X30 < 106 = 1 X5 < 1 => 1 mm.

IAUBUC1 = 1000 +100 + 15 - 80-3-2 + 1 = 1401

4. Dim 40 elevis 14 au prescripcini postici matematica, 16 pt impo & 11 pt. fizica be assimenea, 4 au prescripcini pt mate is impo & pt. impo is fizica 5 pt. mate is fizica; ion 4 pt toate cele 3 materii.

a. Cat; mu au preacuparci pt. mate, impo sau fifica?

b. Cat; au preacuparci pt mate si impo, dax mu si fifica?

a. 40 - |MU|UF| |MU|UF| = 14 + 16 + 11 - 4 - 8 - 5 + 4 = 25b. 4 - 4 = 3