Moto A - multime IAI (mot card(A)) det not de elementele al unei A - ma. finità (=>) IAI < 00 (in raz contrar A infinità) I A - B (=>) (A = B si B = A) (=>) (A ∩ B = A si A ∩ B = B) (A ∩ B = B) (A ∩ B = B) (A - B) (A ∩ B  $\frac{1}{2} = \frac{1}{2} = \frac{1$ Din (1) 5/ (2) => A=B EX.2 (3M+2) n (5M+1) = (5M+1) + 1 5(3m+2)+1 = aeB ">" Fix  $a \in 15N+11 \Rightarrow a = 15 \cdot m+11 \Rightarrow m \in \mathbb{N}$ .

(a)  $a \in C$  (b)  $a \in C$  (c)  $a \in C$  (d)

Fig ac Anb => a=3m+2 = 5m+1 pt m, mc N (aeA) (aeB) 3m+2=5m+1=7 3m=5m-1=) 315m-1(me31N saw me31N+1 saw me31N+2) m=3K+1 [m=3K+2] 5(3K+2)-1=15K+9=3(5K+3) = ) m = 3K+2 pt m ken (3m = 5(3K+2) - 1 = 3(5K+3) = 7 m = 5K+3)=> a = 5m + 1 = 5(3k+2) + 1 = 15k + 11 = 2 = 0 = ANB = C (2) Dim (1) 51 (2) => AnB=C. Exc3 Det AB strind cá: AUB=31,2,314,54, A\B=31,354, A(B=1/13/2) 3/13/5A & 1&B,3&B. ANB \$3,4,5%. 4A0B433457 => 2EA, ZEB Exc!

(Ded. toate multipulle) B=12,4,59 ->46B,56B

Exc 4 A= $3 x \in \Omega / x = \frac{m^2 + 1}{2m^2 + m + 1} / m = 31,2,-10000$ , Cine e | A|? m, m = 132,-10000 = [1000] (Not combinatorica, mer  $m, m \in \{1\}^2, -1, 1000\} = [1000]$   $\frac{M^2 + 1}{2m^2 + m + 1} = 2m^2 + m + m^2 + m + m^2 + m + m^2 + m$ mm(m-m) + (m-m)(m+m) + (m-n) = 0 mm(m-m) + (m-m)(m+m) + (m-n) = 0(m-m)(m+m-mm+1)=0=) m=m Sou m+m-mm+1=0(v-w)(w-1) = -2 (w-v)(w-1) = 2 = 2> m(1-m)-(1-m)+2=0 $\begin{cases} w-1 = 1 \\ w-1 = 1 \end{cases}$   $\begin{cases} w-1 = 1 \\ w-1 = 1 \end{cases}$ => (IAI = 999) A = 2 0 = 5 = 5 N Exc 5 File A = 31,2,-, m 120ti multiple de 7 contine multiple de 7



