

Pr1, Ej1 parte b

$M \subset \mathcal{P}(X)$, $R(M)$ anillo
gen M

Entonces $\underline{R(M)NY} = \underline{R(MNY)}$

$A \in R(M)NY$, $A = A'NY$, $A' \in R(M)$

$A' \in R'$ anillo, $R' \supset M$

$R(M) \supset M^*$, $\cap R$

$R \supset M$
 R anillo por parte a
es anillo

$\underbrace{R(M)NY}_* \rightarrow R(M)NY \supset MNY$

Luego $R(M)NY$ es un anillo que contiene MNY

Por lo cual $\underline{R(M)NY \supset R(MNY)}$

$\underline{R(MNY)} \supset \underline{R(M)NY}$

$A \in R(M)NY$ si $A = A'NY$

$A' = E \cup F$, $E, F \in R(M)$

$E - F$

Sup. $A \in R(M)NY$



$$\sup. A \in \mathcal{K}(\mathbb{R}^n) \setminus \emptyset$$

$$A \notin \mathcal{R}(\mathbb{M}^n)$$

$$A = \bigcup_{n \in \mathbb{N}} A_n, \quad A \subset \bigcup_{n=1}^{\infty} A_n$$

$$A = A' \cap Y \subset \bigcup_{n=1}^{\infty} A_n \cap Y$$

$$A_n \cap Y \in \mathcal{M} \cap Y$$

$$\# \mathcal{P}([0,1]) = \aleph_2$$

$$\# \mathcal{R}(\text{intervalos})$$

incluido σ -alg Borel

$$\# \mathcal{B} = \# \mathbb{R}$$

Entrega 1

$$I^{(n)} = (a_1, b_1] \times \dots \times (a_n, b_n]$$



$$A = \bigcup_{i=1}^m I_i^{(n)} \quad , \quad B = \bigcup_{i=1}^p I_i^{(n)}$$

Pr 2, Ej 2 prop 56

$$\underline{E}, \underline{F} \in \underline{S}, \quad \begin{matrix} E = E' \cup M_1, & M_1 \subset B_1 / \mathcal{A}(B_1) \\ F = F' \cup M_2, & M_2 \subset B_2 / \mathcal{A}(B_2) \end{matrix}$$

$$\underline{E} - \underline{F} = \underline{E} \cap \underline{F}^c =$$

$$(\underline{E}' \cup M_1) \cap (\underline{F}' \cap M_2)^c =$$

$$\underline{E}' \cap (\underline{F}' \cap M_2)^c \cup M_1 \cap (\underline{F}' \cap M_2)^c$$

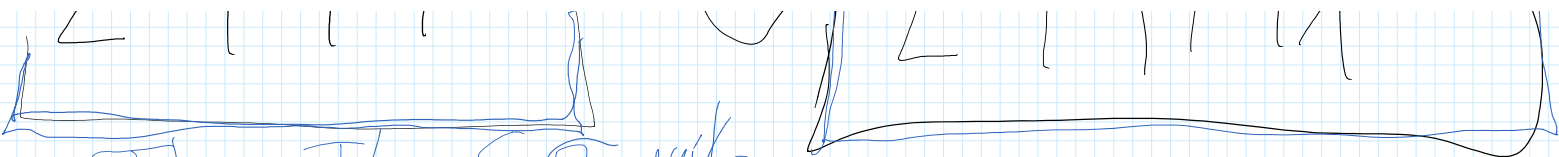
$$\underline{E}' \cap (\underline{F}'^c \cup M_2^c) =$$

$$\underline{E}' \cap \underline{F}'^c \cup \underline{E}' \cap M_2^c$$

0

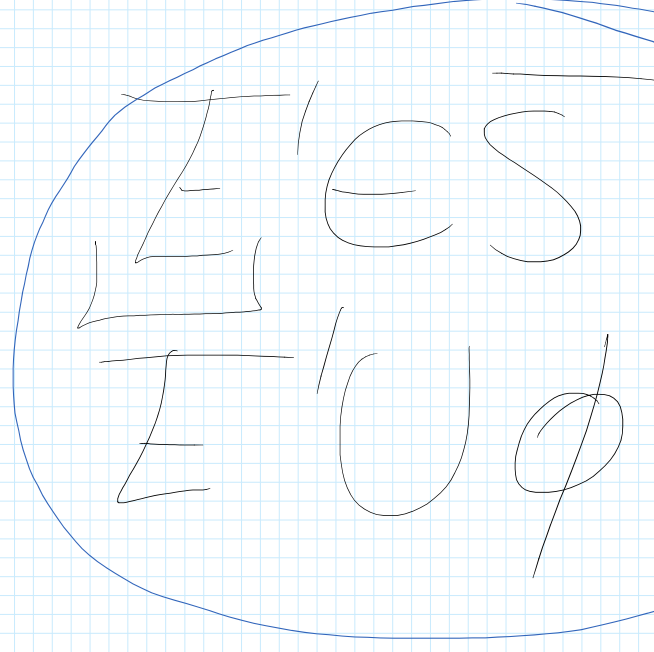
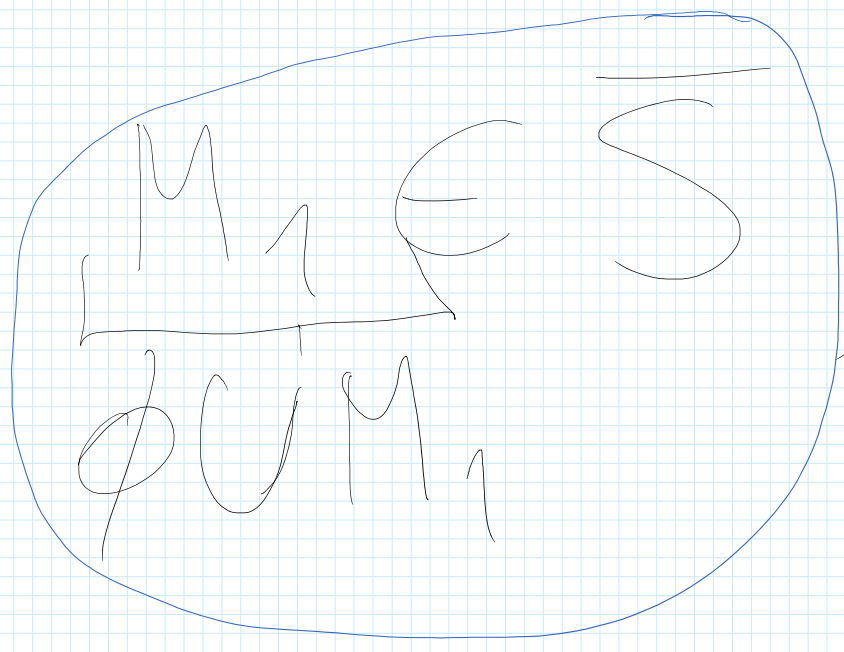
$$\mathbb{C} \checkmark$$
$$\mathbb{C}B_n / \mathcal{L}(B_n) = 0$$

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$Z - Z, \Sigma$ - arko

$$E \cap M_1^C = E - M$$



$$E' = E$$

SCS

* si $M_1CB_1/M(B_1) = 0$

$M_1 \in \bar{S}$

