2. Sean $A, B \subseteq \mathbb{R}$ Probar:

(a) χ_A es medible $\iff A \in \mathcal{M}$.

(b) $\chi_{A \cap B} = \chi_A \cdot \chi_B$.

(c) $\chi_{A \cup B} = \chi_A + \chi_B - \chi_{A \cap B}$.

Sea $\chi_{A}(x)$ medile QVQ AEM 5. χ_{A} ernedile - χ_{A} > χ_{A} \$\text{\$\
5 1/2 ernedille - toeth {x,>=} EM
time solo 2 balous (0,13
$A = \{x \in h \mid \chi_A(x) = \Delta\} = \{x \in h \mid \chi_A(x) > 0\} \in \mathcal{A}$
ni potessi.
Sea LEM QUQ XA a medible
QUQHaem ZXX < 03 EM
1444 Marie Carlotte C
Sidel-moto (rein) XACQ3= pEM
$\leq \partial e(0,1) - \frac{1}{2} \chi \epsilon \ln / \chi_{\Lambda} < \frac{1}{2} = \chi^{C} \epsilon M$
Si DE (1;+00) - {XEIN/XA CO} = A EM
Jedens Mabile as



