O - ciolo:

1)
$$\Omega \in \Sigma$$

2)
$$A \in \Sigma \Rightarrow A^c \in \Sigma$$

3)
$$A_n \in \Sigma \Rightarrow \bigcup_{n=0}^{\infty} A_n \in \Sigma$$

a)
$$\emptyset = \mathcal{D}^c \in \Sigma$$

b) Wienny, ze
$$\bigcup_{m=0}^{\infty} A_m \in \Sigma$$
, wiec $\bigcup_{m=0}^{\infty} A_m \in \Sigma$

$$\bigcap_{M=0}^{\infty} A_{M} = \left(\bigcap_{M=0}^{\infty} A_{M}\right)^{c} = \left(\bigcup_{M=0}^{\infty} A_{M}\right)^{c} \in \Sigma$$

$$(*) \left(\bigcap_{M=0}^{\infty} A_{M}\right)^{C} = \bigcup_{M=0}^{\infty} A_{M}$$

dowád

$$\times \in \bigcup_{M=0}^{\infty} A_{M} \implies E \times \in A_{i}^{C}$$

$$i \in N, i \leq M$$

ceyti
$$\times \in \left(\bigcap_{M=0}^{\infty} A_{M}\right)^{C}$$