$\Omega = \{1, 2, 3, 4, 5\}$

$\mathcal{F}$-algebra $\mathcal{F}$ spełnia warunki:

1) $\Omega \in \mathcal{F}$

2) $A \in \mathcal{F} \Rightarrow A^c \in \mathcal{F}$

3) $A_n \in \mathcal{F} \Rightarrow \bigcup_{n=1}^{\infty} A_n \in \mathcal{F}$

Skoro $S = \{1, 4\} \in \mathcal{F} \overset{(2)}{\Rightarrow} \Omega \setminus \{1, 4\} = \{2, 3, 5\} \in \mathcal{F}$

$\Omega \overset{(1)}{\in} \mathcal{F} \overset{(2)}{\Rightarrow} \emptyset \in \mathcal{F}$

Czyli $\mathcal{F} = \{\emptyset, \Omega, \{1, 4\}, \{2, 3, 5\}\}$