Ω !
$\mathcal{F}$
P
Ω .
$\xi_k \Omega$
$\Omega =$
$\{\xi_k | k =$
$1, \ldots, n\}$
A
$\mathcal{F}$
σ –
$\Omega \in$
$\mathcal{F}$
$A \in$
$\mathcal{F}$
$A \overline{A} \in$
$\mathcal{F}$
$A_n \in$
$\mathcal{F}, n =$
$1, 2, \ldots$
$\bigcap_{n=1}^{\infty} A_n \in$
$\mathcal{F}$
$\xi_1 =$.
$\{\}$
$\xi_2 =$
$\{\}$
$\Omega =$
$\{\xi_1, \xi_2\}$
$\Omega =$
$\{1, 2, \ldots, 10\}$
$A =$
$\{6\} =$
$\{6\}$
$B =$
$\{\} =$
$\{2, 4, 6, 8, 10\}$
$\overline{B} \equiv$
$\{\} C =$
$\{5\} =$
$\{1, 2, 3, 4, 5\}$
$A, B, C \subset$
Ω
$\emptyset \quad \Omega$
$\boxed{AP(A)}$
$\mathcal{F} P(A) P(\Omega, \mathcal{F}) P(A) A$
$P(A) \geq$
0
$P(\Omega) =$
1
$A_1, A_2, ..., A_n (A_i \cap$
$A_j =$
$\emptyset, i \neq$
$j) P(A_1 \cup$
$A_2 \cup$
$\ldots \cup$
$A_n) =$
$P(A_1) +$
$P(A_2) +$
$\cdots +$
$P(A_n)$
$\mathcal{F}$
$A \in$
$\mathcal{F}$
$\overline{A} \in$
$\mathcal{F}$
$A \in$
$\mathcal{F}, B \in$
$\mathcal{F}$
$A \cup$
$B \in$
$\mathcal{F}$
$A \in$
$\mathcal{F}, B \in$
$\mathcal{F}$
$A \cap$
$B \in$
$\mathcal{F}$
$A \in$
$\mathcal{F}, B \in$
$\mathcal{F}$
$A -$
$B \in$
$\mathcal{F}$
$\mathcal{F} \overline{A} \in$
$\mathcal{F} A \in$
$\mathcal{F} A \cup$
$\overline{A} \equiv$
$\Omega \in$
$\mathcal{F}$
$\Omega \in$
$\mathcal{F}$

$\ldots =$
$P(\xi_n)$
$\mathcal{F}\Omega Pwr(\Omega), \Omega 2^n\emptyset \in$
$\mathcal{F}, \Omega \in$
$\mathcal{F}$
$1 =$
$P(\Omega) =$
$\Sigma_{i=1}^{n} P(\xi_i)P(\xi_i) =$
$\frac{1}{n}, (i =$
$1, \ldots, n)$
$A \subseteq$
$\mathcal{F}$
$AkA =$
$\{\xi_{i_1}\} \cup$
$\{\xi_{i_2}\} \cup$
$\ldots \cup$
$\{\xi_{i_k}\}$
$P(A) = \frac{k}{n} =$

$\Omega =$
$\{1, 2, \ldots, 10\}$
$A =$
$\{\} =$
$\{2\} \cup$
$\{4\} \cup$
$\{6\} \cup$
$\{8\} \cup$
$\{10\} =$
$\{2, 4, 6, 8, 10\}$
$P(A) =$
$\frac{|A|}{n} =$
$\frac{5}{10} =$
$\frac{1}{2}$
$\Omega =$
$\{A, \overline{A}\}, A =$
$\{\}, \overline{A} =$
$\{\}, \mathcal{F} =$
$\{\emptyset, \Omega, A, \overline{A}\} A, \overline{A} P(A) =$
$\frac{1}{2}$
$\Omega \mathcal{F} B =$
$\{4\} \mathcal{F} B B P(B) =$
$\frac{1}{10}$
$n +$
$1 n$
$A_1 = A_2 = B_1 = B_2 =$
$\Omega -$
$\{A_1 >$
$B_1\} =$
$\{A_2 \leq$
$B_1\} =$
$\{A_2 >$
$B_2\}$
$P(A_1 >$
$B_1) =$
$P(A_2 >$
$B_2)$
$P(A_1 >$
$B_1) =$
$\frac{1}{2}$
$S_\Omega \Omega S_A S_A A A A P(\Omega) =$
1

$P(A) = \frac{S_A}{S_\Omega}$

$|x -$
$y| \leq$
15
$P(A) = \frac{S_A}{S_\Omega} = \frac{60^2 - 45^2}{60^2} = \frac{7}{16}$
$A, B \in$
$\mathcal{F}$

$P(A \cup B) = P(A) + P(B) - P(AB)$

A, B
$A \cap$
$B =$
$\emptyset$