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Table of Symbols

$\{a, b, x\}$	Set with members a, b and x
$\{x\|p(x)\}$	The set of x for which $p(x)$ is true
$p \wedge q$	p and q
$p \vee q$	p or q
$\neg p$	not p
iff	if and only if
$p \Rightarrow q$	p implies q
$p \Leftrightarrow p$	p if and only if q
(a, b)	Ordered pair: $(a, b) = (c, d)$ iff $a = c \wedge b = d$
$a \in A$	a is a member of the set A
$A \times B$	$\{(a, b)\|a \in A \wedge b \in B\}$
$\mathbf{R}$	The real numbers
$\mathbf{R}^n$	The n-dimensional real vector space
$(x_1, \ldots, x_n) \in \mathbf{R}^n$	An n-dimensional vector
$f{:}A{\rightarrow}B$	A function $b = f(a)$, where $a \in A$ and $b \in B$
$f(\cdot)$	A function f where we suppress its argument
$f^{-1}(y)$	The inverse of function $y = f(x)$
$\sum_{x=a}^{b} f(x)$	$f(a) + \ldots + f(b)$
$S_1 \times \ldots \times S_n$	$\{(s_1, \ldots s_n)\|s_i \in S_i, i = 1, \ldots n\}$
ΔS	Set of probability distributions (lotteries) over S
$[a, b]$	$\{x \in \mathbf{R}\|a \leq x \leq b\}$
$[a, b)$	$\{x \in \mathbf{R}\|a \leq x < b\}$
$(a, b]$	$\{x \in \mathbf{R}\|a < x \leq b\}$
(a, b)	$\{x \in \mathbf{R}\|a < x < b\}$
$A \cup B$	$\{x\|x \in A \vee x \in B\}$
$A \cap B$	$\{x\|x \in A \wedge x \in B\}$
$\cup_\alpha A_\alpha$	$\{x\|x \in A_\alpha$ for some $\alpha\}$
$\cap_\alpha A_\alpha$	$\{x\|x \in A_\alpha$ for all $\alpha\}$
$A \subset B$	$A \neq B \wedge (x \in A \Rightarrow x \in B)$
$A \subseteq B$	$x \in A \Rightarrow x \in B$