

PROBABILITY: Representing the Sample Space
UNION OF SETS

	TREE DIAGRAM	VENN DIAGRAM	KARNAUGH DIAGRAM
$A \cup B$ $A \text{ OR } B$			
$A \cup B'$ $A \text{ OR NOT } B$			
$A' \cup B$ $\text{NOT } A \text{ OR } B$			
$A' \cup B'$ $\text{NOT } A \text{ OR NOT } B$			

A first branches, B second A left circle, B right circle A horizontal row, B vertical column

PROBABILITY: Representing the Sample Space
INTERSECTION OF SETS

	TREE DIAGRAM	VENN DIAGRAM	KARNAUGH DIAGRAM
$A \cap B$ $A \text{ AND } B$			
$A \cap B'$ $A \text{ AND NOT } B$			
$A' \cap B$ $\text{NOT } A \text{ AND } B$			
$A' \cap B'$ $\text{NOT } A \text{ AND NOT } B$			

A first branches, B second A left circle, B right circle A horizontal row, B vertical column

PROBABILITY: Representing the Sample Space
UNION OF SETS

	TREE DIAGRAM	VENN DIAGRAM	KARNAUGH DIAGRAM
$A \cup B$ A OR B			
$A \cup B'$ A OR NOT B			
$A' \cup B$ NOT A OR B			
$A' \cup B'$ NOT A OR NOT B			

A first branches, B second
 A left circle, B right circle
 A horizontal row, B vertical column

PROBABILITY: Representing the Sample Space
INTERSECTION OF SETS

	TREE DIAGRAM	VENN DIAGRAM	KARNAUGH DIAGRAM
$A \cap B$ A AND B			
$A \cap B'$ A AND NOT B			
$A' \cap B$ NOT A AND B			
$A' \cap B'$ NOT A AND NOT B			

A first branches, B second
 A left circle, B right circle
 A horizontal row, B vertical column