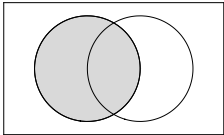
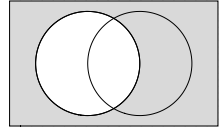
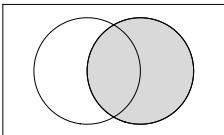
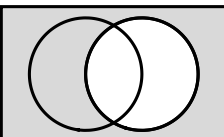
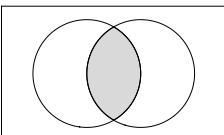
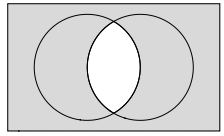
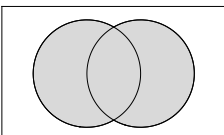
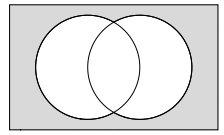
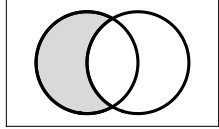
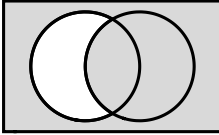
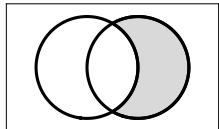
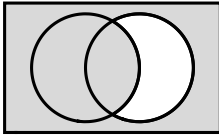
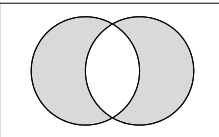
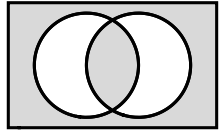
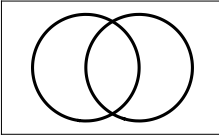
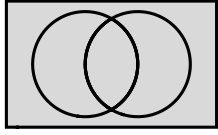


Set	Venn Diagram	Boolean Expression	Truth Table															
$A$		$x$																
$A'$		$\neg x$	<table border="1" data-bbox="938 421 1045 533"> <tr><td><math>x</math></td><td><math>\neg x</math></td></tr> <tr><td>1</td><td>0</td></tr> <tr><td>0</td><td>1</td></tr> </table>	$x$	$\neg x$	1	0	0	1									
$x$	$\neg x$																	
1	0																	
0	1																	
$B$		$y$																
$B'$		$\neg y$	<table border="1" data-bbox="938 779 1045 891"> <tr><td><math>y</math></td><td><math>\neg y</math></td></tr> <tr><td>1</td><td>0</td></tr> <tr><td>0</td><td>1</td></tr> </table>	$y$	$\neg y$	1	0	0	1									
$y$	$\neg y$																	
1	0																	
0	1																	
$A \cap B$		$x \wedge y$	<table border="1" data-bbox="912 945 1070 1120"> <tr><td><math>x</math></td><td><math>y</math></td><td><math>x \wedge y</math></td></tr> <tr><td>1</td><td>1</td><td>1</td></tr> <tr><td>1</td><td>0</td><td>0</td></tr> <tr><td>0</td><td>1</td><td>0</td></tr> <tr><td>0</td><td>0</td><td>0</td></tr> </table>	$x$	$y$	$x \wedge y$	1	1	1	1	0	0	0	1	0	0	0	0
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1	0	0																
0	1	0																
0	0	0																
$(A \cap B)'$		$\neg (x \wedge y)$ $x \uparrow y$	<table border="1" data-bbox="890 1164 1091 1339"> <tr><td><math>x</math></td><td><math>y</math></td><td><math>\neg (x \wedge y)</math></td></tr> <tr><td>1</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>0</td><td>1</td></tr> <tr><td>0</td><td>1</td><td>1</td></tr> <tr><td>0</td><td>0</td><td>1</td></tr> </table>	$x$	$y$	$\neg (x \wedge y)$	1	1	0	1	0	1	0	1	1	0	0	1
$x$	$y$	$\neg (x \wedge y)$																
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0	1	1																
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$A \cup B$		$x \vee y$	<table border="1" data-bbox="912 1382 1070 1556"> <tr><td><math>x</math></td><td><math>y</math></td><td><math>x \vee y</math></td></tr> <tr><td>1</td><td>1</td><td>1</td></tr> <tr><td>1</td><td>0</td><td>1</td></tr> <tr><td>0</td><td>1</td><td>1</td></tr> <tr><td>0</td><td>0</td><td>0</td></tr> </table>	$x$	$y$	$x \vee y$	1	1	1	1	0	1	0	1	1	0	0	0
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$(A \cup B)'$		$\neg (x \vee y)$ $x \downarrow y$	<table border="1" data-bbox="890 1601 1091 1776"> <tr><td><math>x</math></td><td><math>y</math></td><td><math>\neg (x \vee y)</math></td></tr> <tr><td>1</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>0</td><td>0</td></tr> <tr><td>0</td><td>1</td><td>0</td></tr> <tr><td>0</td><td>0</td><td>1</td></tr> </table>	$x$	$y$	$\neg (x \vee y)$	1	1	0	1	0	0	0	1	0	0	0	1
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Set	Venn Diagram	Boolean Expression	Truth Table															
$A \setminus B$ $A \cap B'$		$x \wedge \neg y$	<table border="1"> <thead> <tr> <th><math>x</math></th> <th><math>y</math></th> <th><math>x \wedge \neg y</math></th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>0</td><td>1</td></tr> <tr><td>0</td><td>1</td><td>0</td></tr> <tr><td>0</td><td>0</td><td>0</td></tr> </tbody> </table>	$x$	$y$	$x \wedge \neg y$	1	1	0	1	0	1	0	1	0	0	0	0
$x$	$y$	$x \wedge \neg y$																
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1	0	1																
0	1	0																
0	0	0																
$A' \cup B$		$\neg x \vee y$ $x \rightarrow y$	<table border="1"> <thead> <tr> <th><math>x</math></th> <th><math>y</math></th> <th><math>x \rightarrow y</math></th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>1</td></tr> <tr><td>1</td><td>0</td><td>0</td></tr> <tr><td>0</td><td>1</td><td>1</td></tr> <tr><td>0</td><td>0</td><td>1</td></tr> </tbody> </table>	$x$	$y$	$x \rightarrow y$	1	1	1	1	0	0	0	1	1	0	0	1
$x$	$y$	$x \rightarrow y$																
1	1	1																
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0	0	1																
$B \setminus A$ $A' \cap B$		$x \wedge \neg y$	<table border="1"> <thead> <tr> <th><math>x</math></th> <th><math>y</math></th> <th><math>x \wedge \neg y</math></th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>0</td><td>0</td></tr> <tr><td>0</td><td>1</td><td>1</td></tr> <tr><td>0</td><td>0</td><td>0</td></tr> </tbody> </table>	$x$	$y$	$x \wedge \neg y$	1	1	0	1	0	0	0	1	1	0	0	0
$x$	$y$	$x \wedge \neg y$																
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1	0	0																
0	1	1																
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$A \cup B'$		$x \vee \neg y$ $x \leftarrow y$	<table border="1"> <thead> <tr> <th><math>x</math></th> <th><math>y</math></th> <th><math>x \leftarrow y</math></th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>1</td></tr> <tr><td>1</td><td>0</td><td>1</td></tr> <tr><td>0</td><td>1</td><td>0</td></tr> <tr><td>0</td><td>0</td><td>1</td></tr> </tbody> </table>	$x$	$y$	$x \leftarrow y$	1	1	1	1	0	1	0	1	0	0	0	1
$x$	$y$	$x \leftarrow y$																
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0	0	1																
$A \Delta B$ $(A \cap B') \cup (A' \cap B)$		$(x \wedge \neg y) \vee (\neg x \wedge y)$ $x \oplus y$	<table border="1"> <thead> <tr> <th><math>x</math></th> <th><math>y</math></th> <th><math>x \oplus y</math></th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>0</td><td>1</td></tr> <tr><td>0</td><td>1</td><td>1</td></tr> <tr><td>0</td><td>0</td><td>0</td></tr> </tbody> </table>	$x$	$y$	$x \oplus y$	1	1	0	1	0	1	0	1	1	0	0	0
$x$	$y$	$x \oplus y$																
1	1	0																
1	0	1																
0	1	1																
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$(A \Delta B)'$ $(A \cup B') \cap (A' \cup B)$		$(x \wedge y) \vee (\neg x \wedge \neg y)$ $x \leftrightarrow y$	<table border="1"> <thead> <tr> <th><math>x</math></th> <th><math>y</math></th> <th><math>x \leftrightarrow y</math></th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>1</td></tr> <tr><td>1</td><td>0</td><td>0</td></tr> <tr><td>0</td><td>1</td><td>0</td></tr> <tr><td>0</td><td>0</td><td>1</td></tr> </tbody> </table>	$x$	$y$	$x \leftrightarrow y$	1	1	1	1	0	0	0	1	0	0	0	1
$x$	$y$	$x \leftrightarrow y$																
1	1	1																
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0	1	0																
0	0	1																
$\phi$		$F$																
$U$		$T$																