
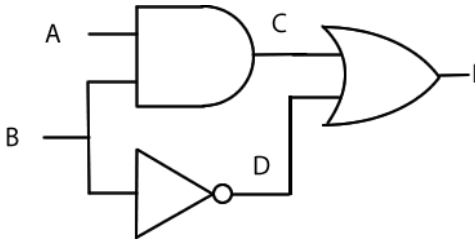
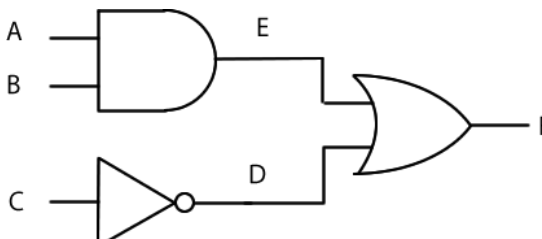
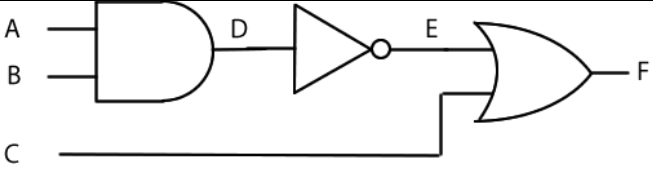
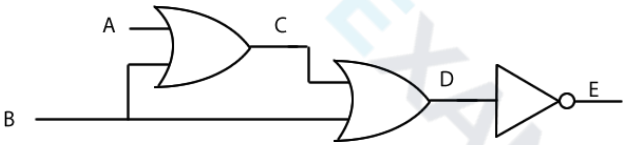
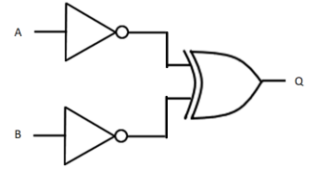
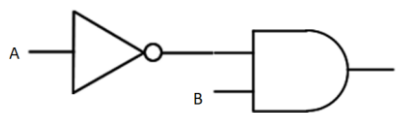


Complete the Truth tables, Boolean expression and circuit for the following circuits and write down the Boolean expression - Answers

	Circuit	Truth Table	Boolean Expression																																																						
1		<table><tr><th>A</th><th>B</th><th>E</th><th>C</th><th>D</th></tr><tr><td>0</td><td>0</td><td>1</td><td>0</td><td>1</td></tr><tr><td>0</td><td>1</td><td>1</td><td>1</td><td>0</td></tr><tr><td>1</td><td>0</td><td>0</td><td>0</td><td>1</td></tr><tr><td>1</td><td>1</td><td>0</td><td>0</td><td>1</td></tr></table>	A	B	E	C	D	0	0	1	0	1	0	1	1	1	0	1	0	0	0	1	1	1	0	0	1	E=NOT A C= E AND B D= NOT C D = NOT (E AND B) Substitute in C <b>D = NOT((NOT A) AND B) Substitute in E</b>																													
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3		<table><tr><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th></tr><tr><td>0</td><td>0</td><td>0</td><td>1</td><td>0</td><td>1</td></tr><tr><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td></tr><tr><td>1</td><td>0</td><td>0</td><td>1</td><td>0</td><td>1</td></tr><tr><td>1</td><td>1</td><td>0</td><td>1</td><td>1</td><td>1</td></tr><tr><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td></tr><tr><td>0</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td></tr><tr><td>1</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td></tr><tr><td>1</td><td>1</td><td>1</td><td>0</td><td>1</td><td>1</td></tr></table>	A	B	C	D	E	F	0	0	0	1	0	1	0	1	0	1	0	1	1	0	0	1	0	1	1	1	0	1	1	1	0	0	1	0	0	0	0	1	1	0	0	0	1	0	1	0	0	0	1	1	1	0	1	1	E = A AND B D= NOT C F = E OR D <b>F = (A AND B) OR (NOT C)</b>
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A	B	C	D	E																													
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A	B	Q																															
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A	B	Q																															
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