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1. Boolean Algebra

NOT (3 + 5 > 7) OR (4 / 2 ≥ 2 AND 7 * 3 < 25)
NOT FALSE OR (TRUE AND FALSE)
TRUE OR FALSE
TRUE

1. TRUE

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2. Boolean Algebra

1	2	3	4	5	6	7
A	B	A OR B	NOT (A OR B)	4 AND 2	NOT A	5 AND 6
0	0	0	1	0	1	0
0	1	1	0	0	1	0
1	0	1	0	0	0	0
1	1	1	0	0	0	0

2. 4

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3. Boolean Algebra

1	2	3	4	5	6	7
A	B	~A	~B	3*4	1*2	5+6
0	0	1	1	1	0	1
0	1	1	0	0	0	0
1	0	0	1	0	0	0
1	1	0	0	0	1	1

3. (0,0) and (1,1)

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4. Boolean Algebra

~(A + B) + ~(A + ~B) = ~(~A) * ~B + ~A * ~(~B)
= ~A * ~B + ~A * B = ~A * (~B + B) = ~A * (1) = ~A

4. ~A

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5. Boolean Algebra

~A + B * ~A + ~B * A + ~B = ~A * (1 + B) + ~B * (A + 1)
= ~A * 1 + ~B * 1 = ~A + ~B

5. ~A + ~B