Logic Proposition

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Logic Proposition

Let p, Q and r be the following propositions concerning integers n:

- p : n is a factor of 36 (2)
- q : n is a factor of 4 (2)
- r : n is a factor of 9 (3)

n	p	q	r
1	1	1	1
2	1	0	1
3	0	1	1
4	1	0	1
6	0	0	1
9	0	1	1
12	0	0	1
18	0	0	1
36	0	0	1

Logic Proposition

For each of the following compound statements, express it using the propositions P q and r, andng logical symbols, then given the truth table for it,

1) If n is a factor of 36, then n is a factor of 4 or n is a factor of 9
2) If n is a factor of 4 or n is a factor of 9 then n is a factor of 36