

NPTEL
NPTEL ONLINE COURSE
Discrete Mathematics
Logic
AND operator for 3 Variables
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We saw that OR truth table of P, Q and R. How will an AND truth table of three variables look like? So let's fill in the table. P, Q, R 0,0,0 to 1,1,1 eight entries. So what you mean by AND? All of them should be true. 0, 0, 0 do you think all of them are true? No. All of them are not true. So 0. 0,0, 1. No. All of them are not true. If I spot even a single 0, I should say it is 0. So obviously every single entry will be 0 except for the last entry which is 1,1,1 which will give you 1. So P and Q and R will be all 0s, first seven entries will be 0 and the last one will be 1.

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