SIT111 - Task 1.2P Boolean Expression to Truth Table

Task Instructions

Complete the truth tables for the following Boolean expressions. Submit to Google Classroom as a PDF file.

a. NOT (P) OR NOT (Q)

P	Q	NOT (P)	NOT (Q)	NOT (P) OR NOT (Q)
0	0	1	1	
0	1	0	1	
1	0	0	1	
1	1	0	0	

b. (P AND Q) OR (NOT (P AND Q))

P	Q	P AND Q	NOT (P AND Q)	(P AND Q) OR (NOT (P AND Q))
0	0	0	1	1
0	1	0	1	1
1	0	0	1	1
1	1	1	0	1

c. P AND (Q OR R)

P	Q	R	Q OR R	P AND (Q OR R)
0	0	0	0	
0	0	1	1	0
0	1	0	1	0
0	1	1	1	0
1	0	0	0	
1	0	1	1	1
1	1	0	1	1
1	1	1	1	1